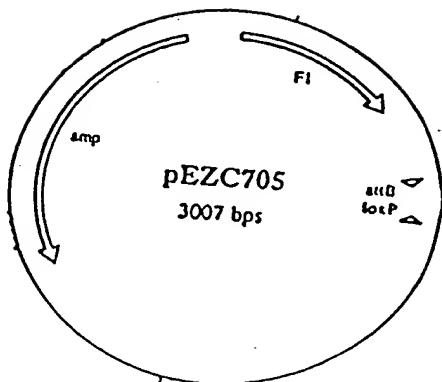
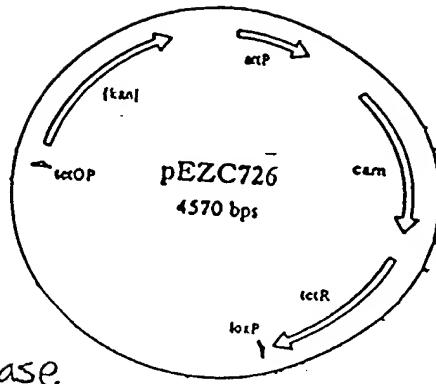


Figure 1

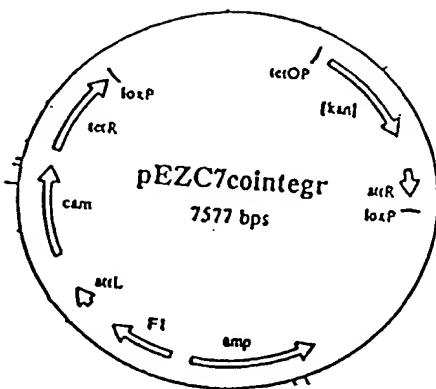
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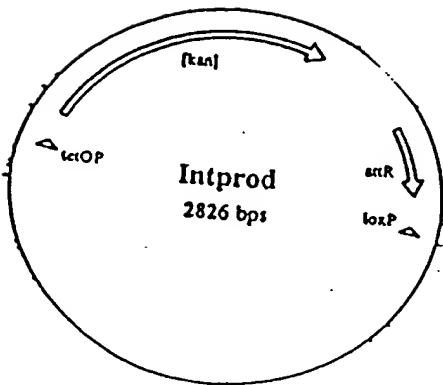
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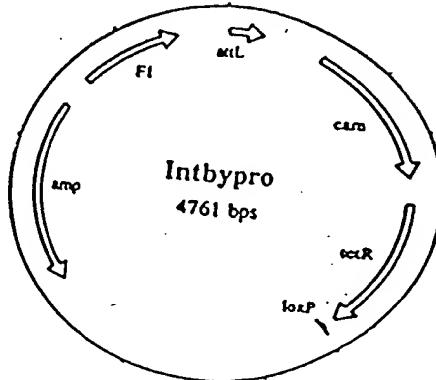
↓ Integrase



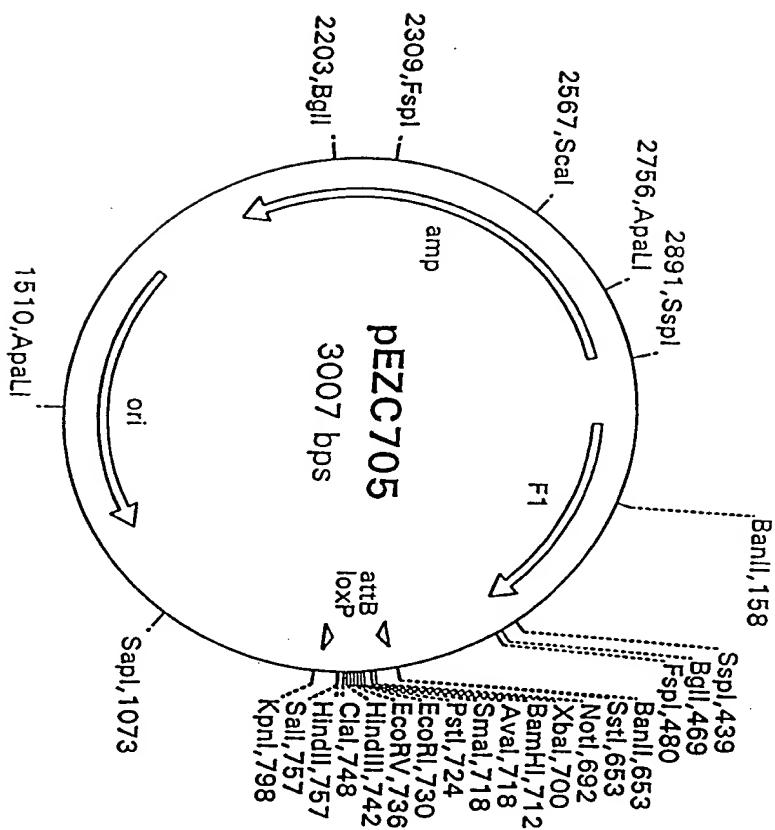
↓ Cre



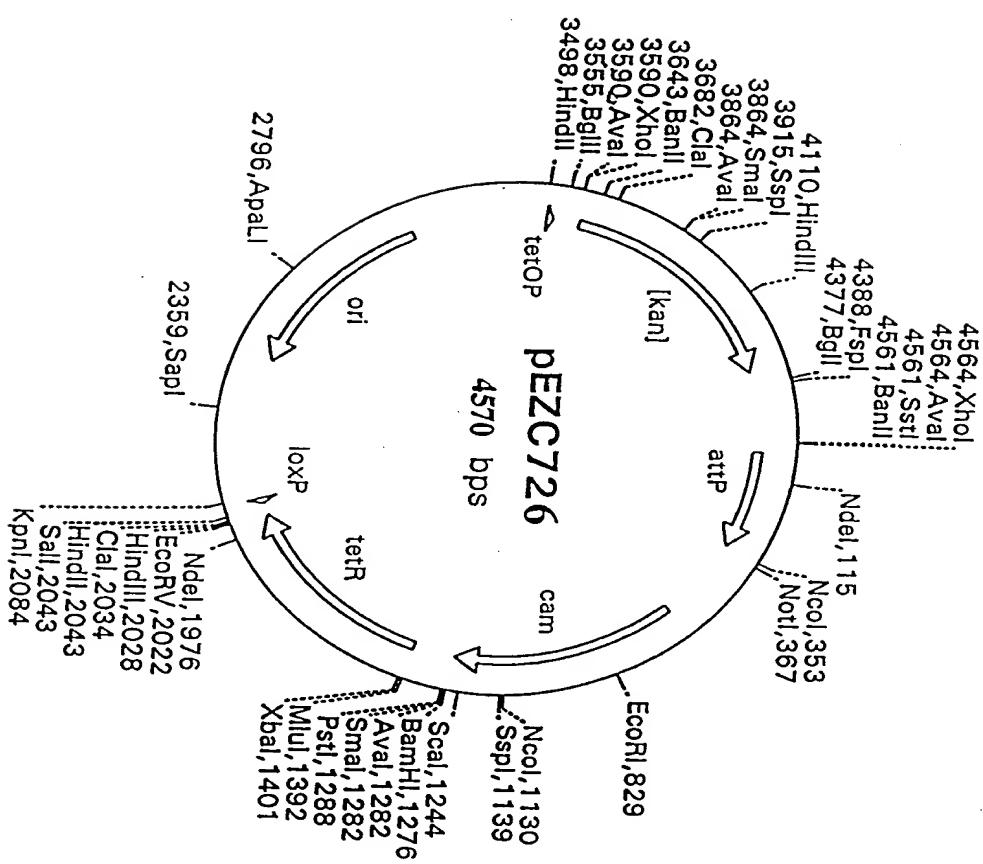
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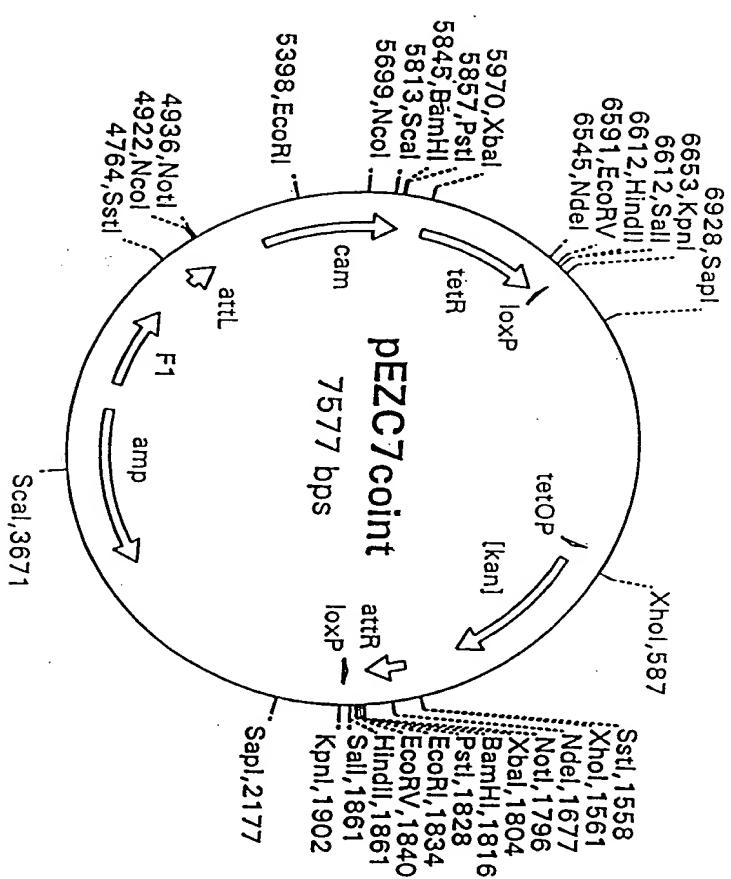
- FIGURE 2A -



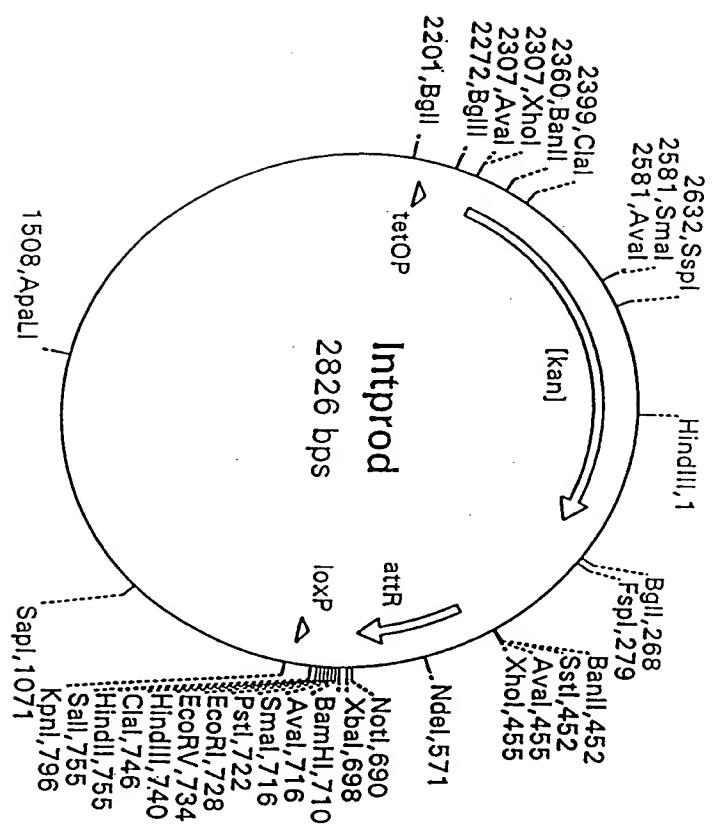
- FIGURE 2B -



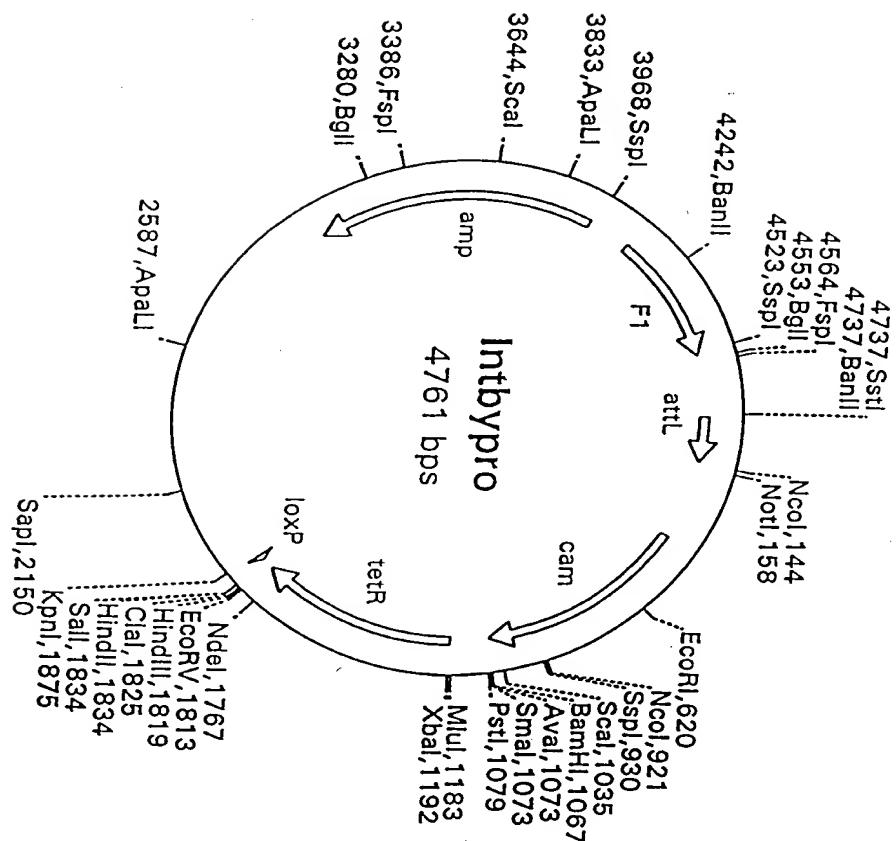
- FIGURE 2C -



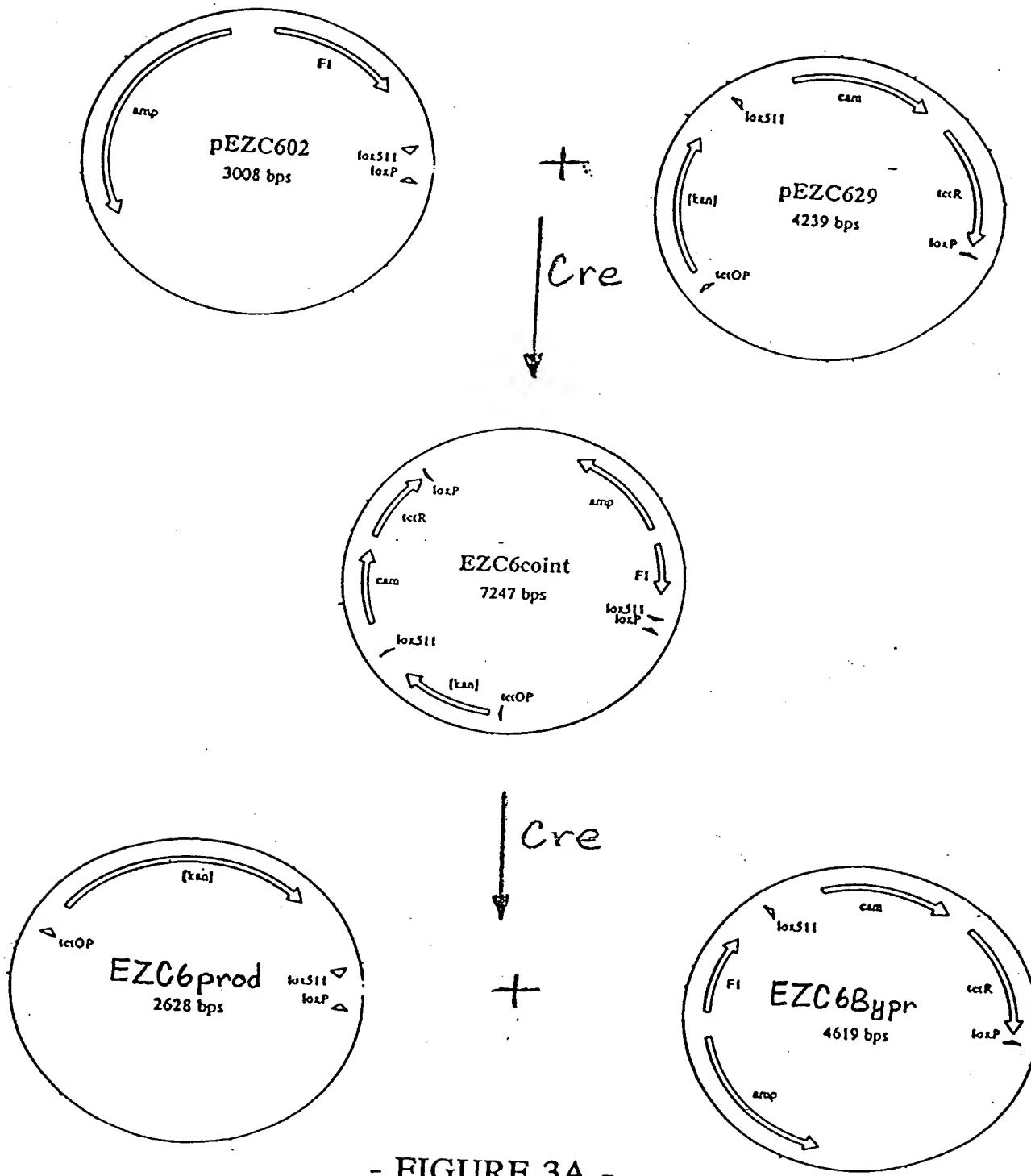
- FIGURE 2D -



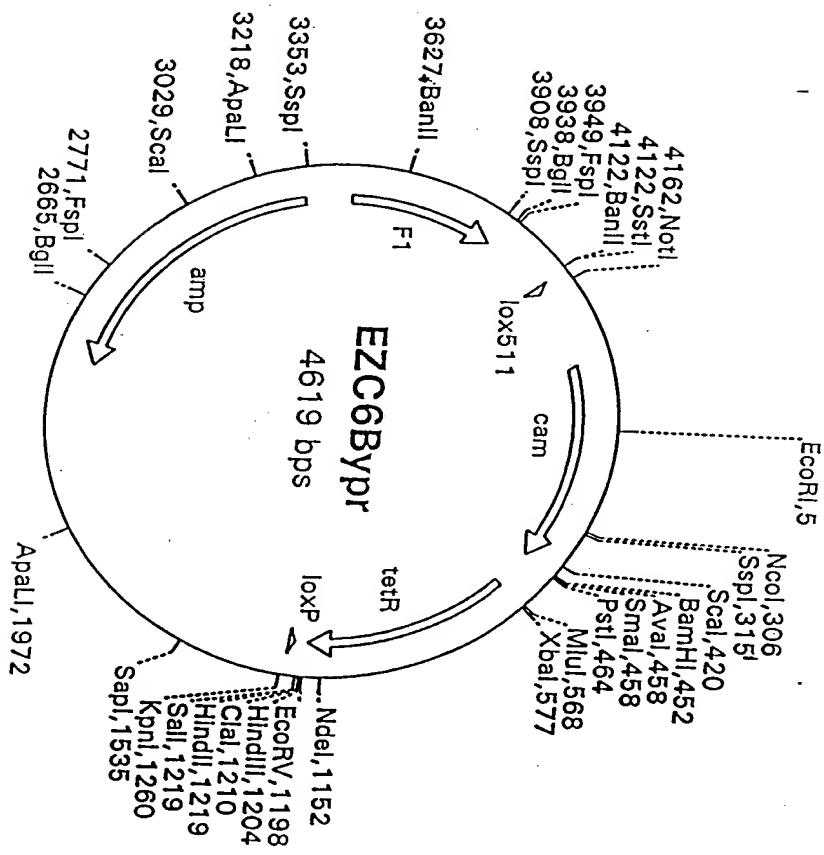
- FIGURE 2E -



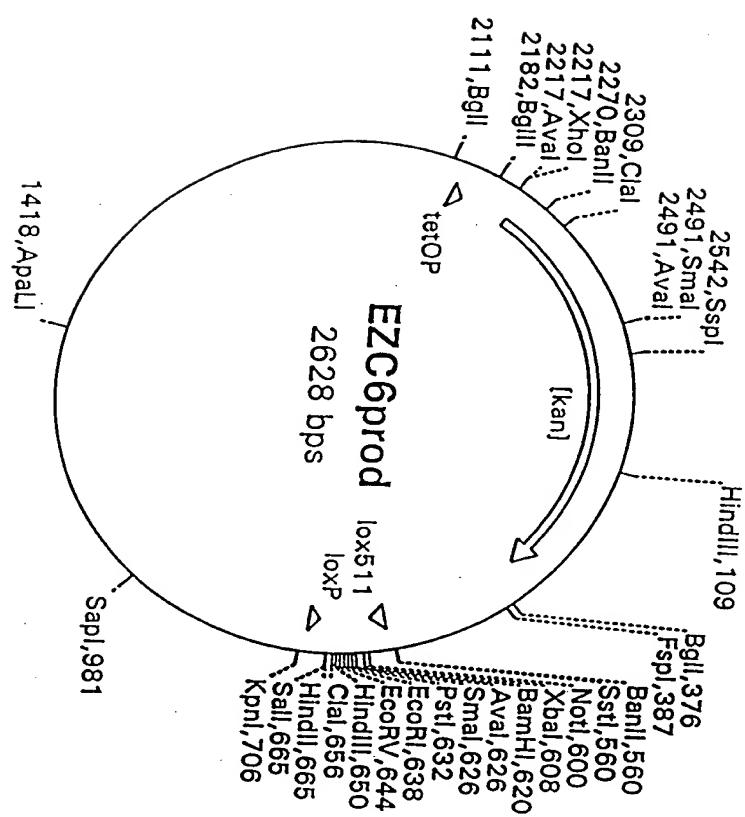
- FIGURE 2F -



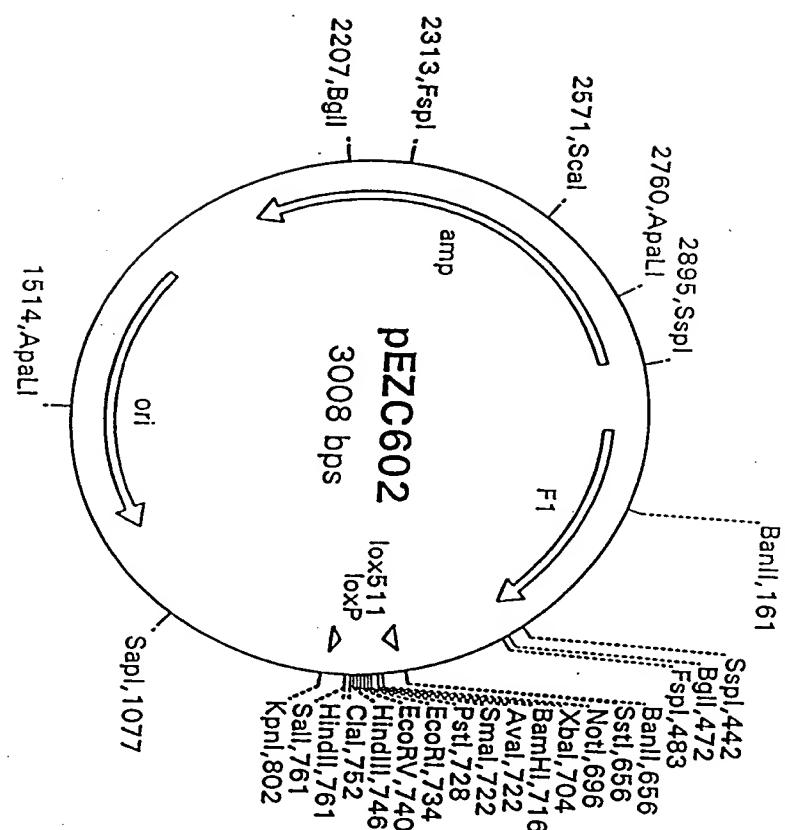
- FIGURE 3A -



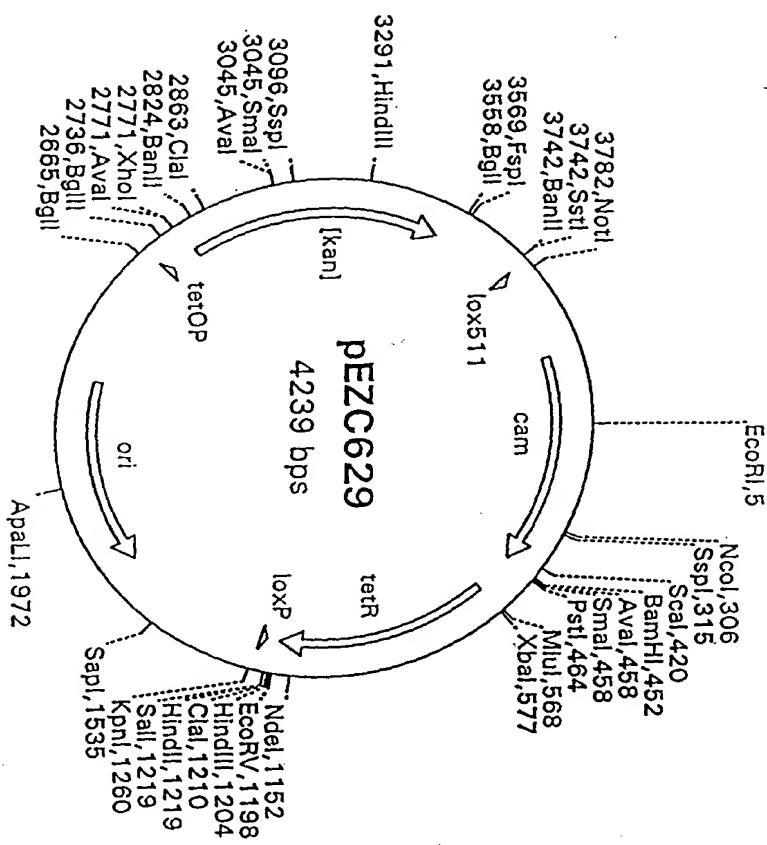
- FIGURE 3B -



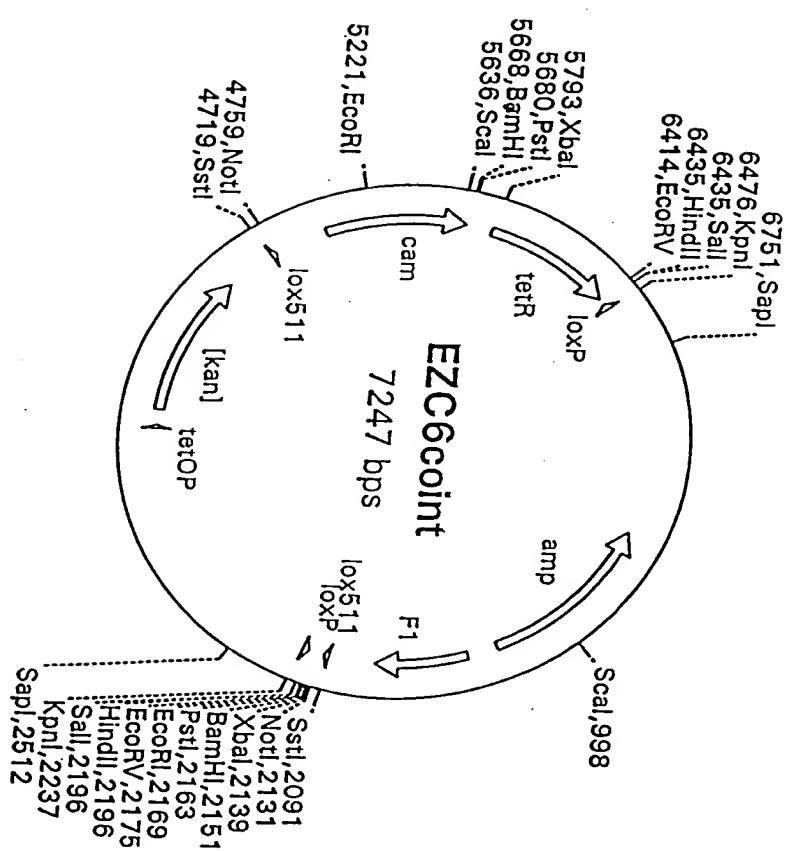
- FIGURE 3C -



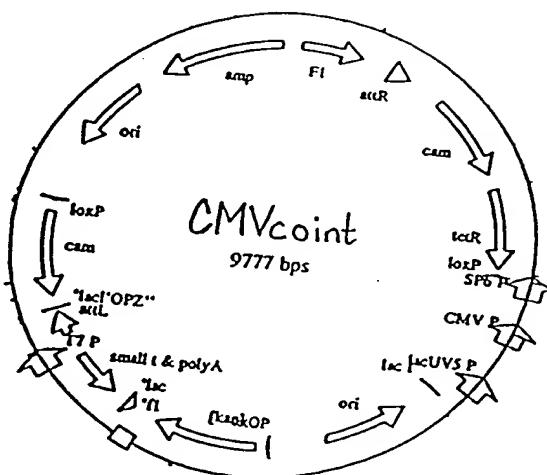
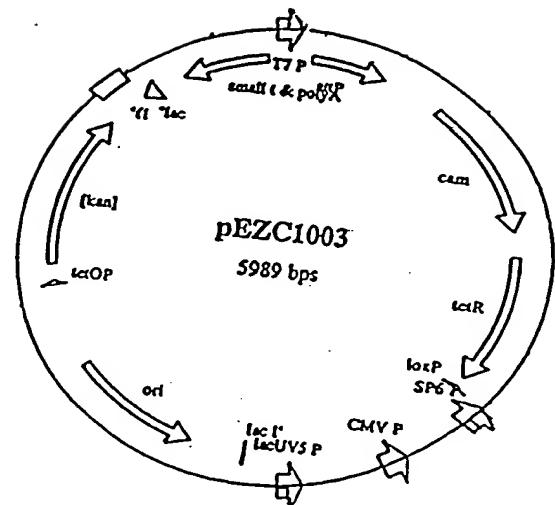
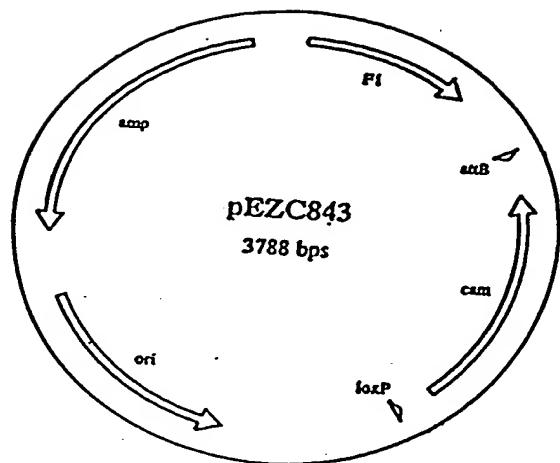
- FIGURE 3D -



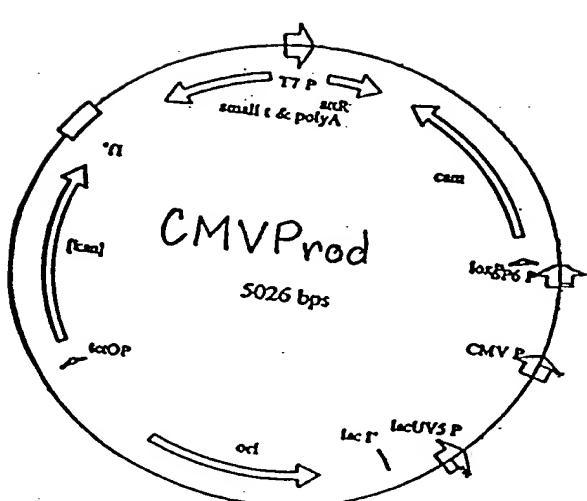
- FIGURE 3E -



- FIGURE 3F -

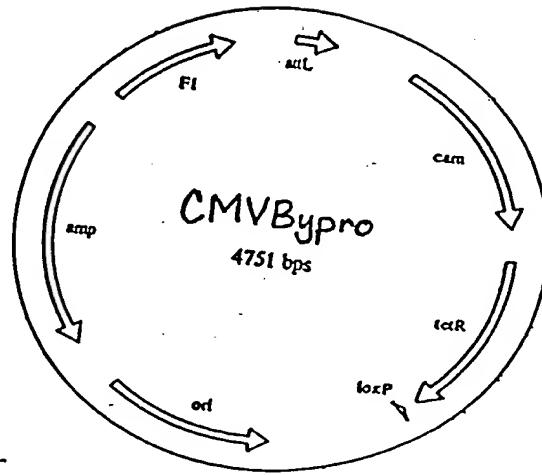


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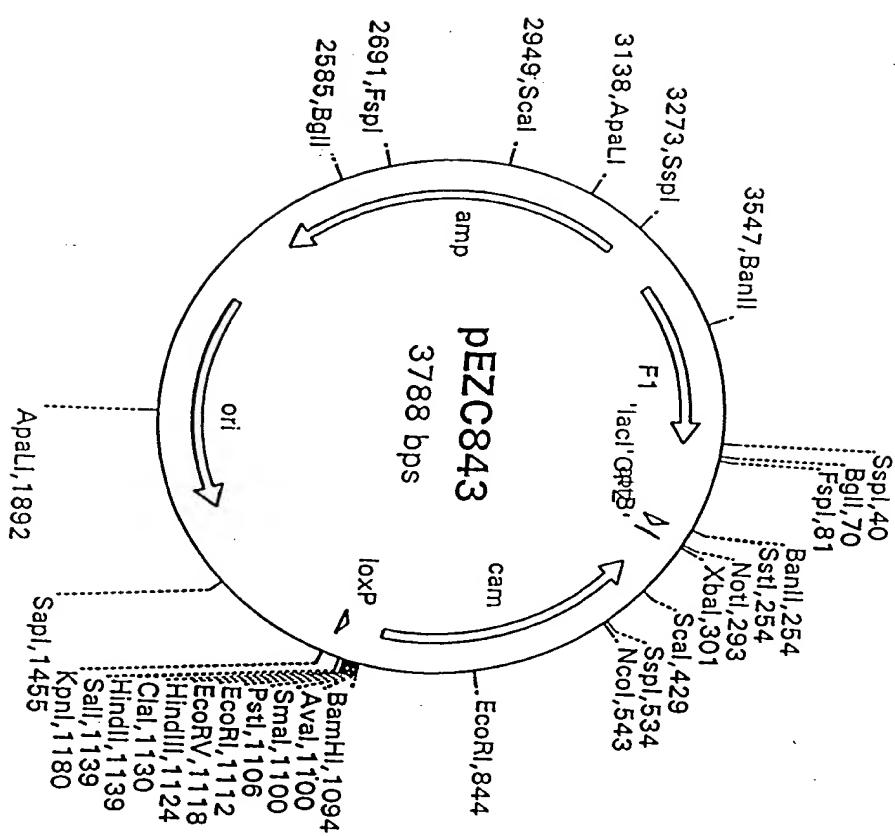


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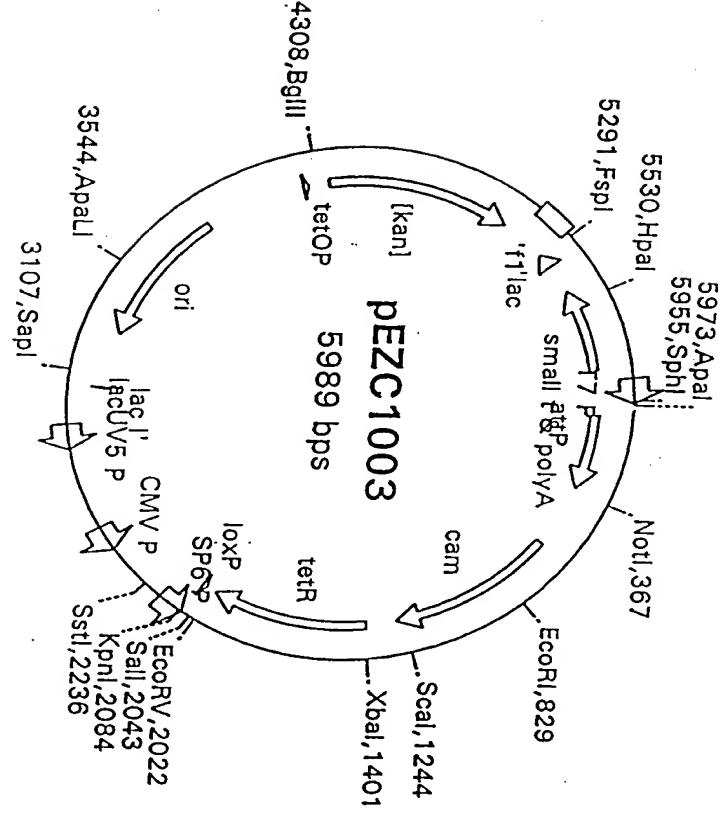
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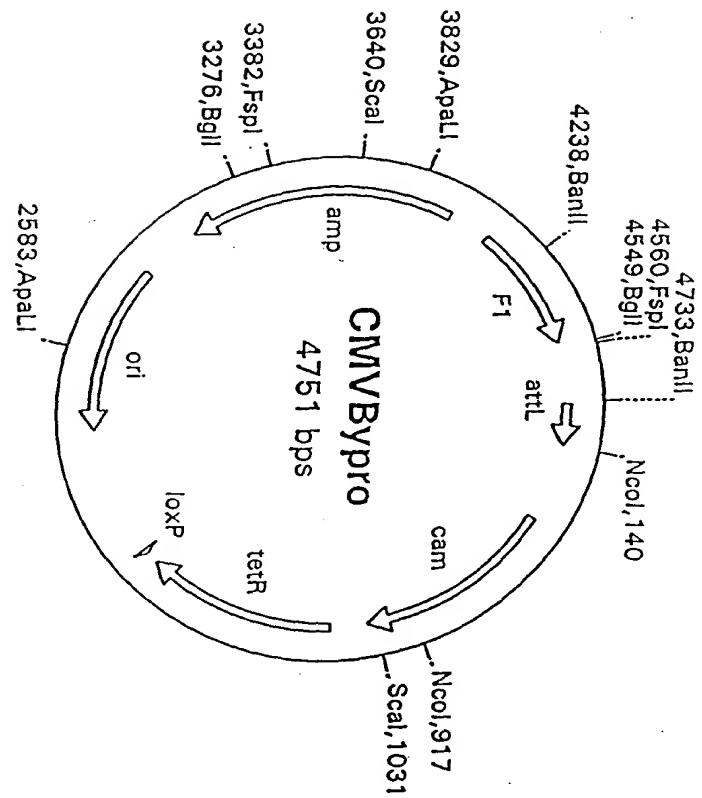
- FIGURE 4A -



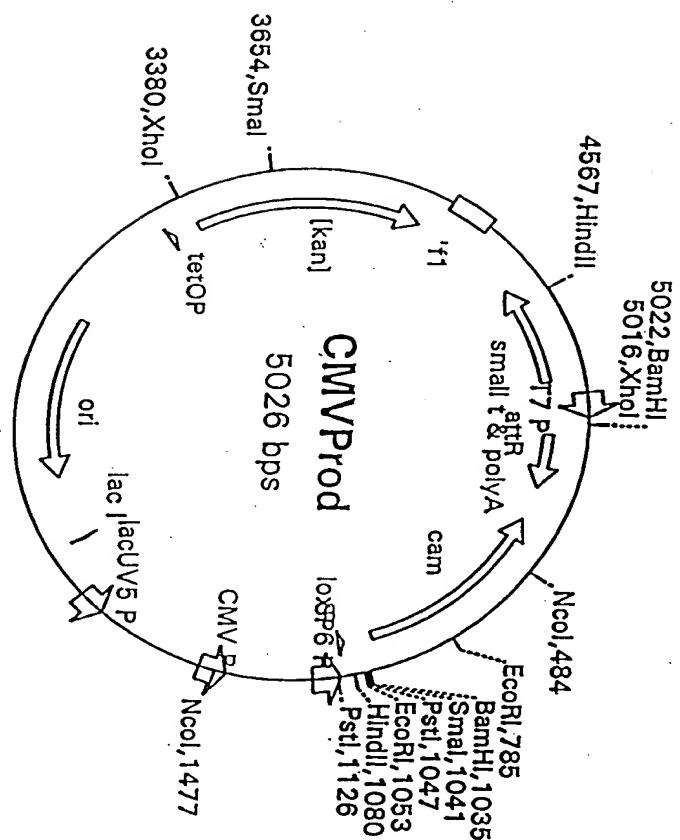
- FIGURE 4B -



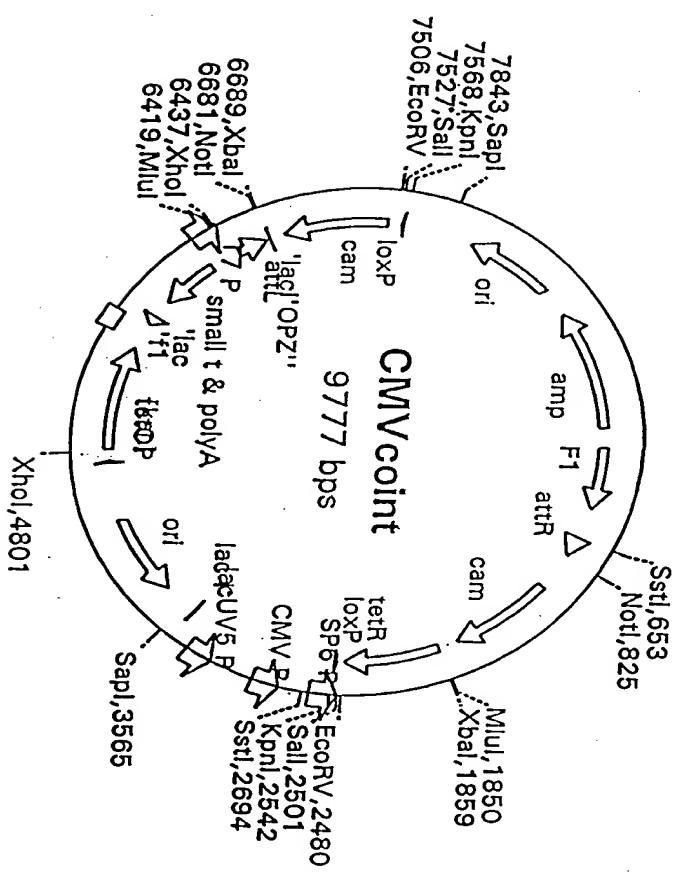
- FIGURE 4C -



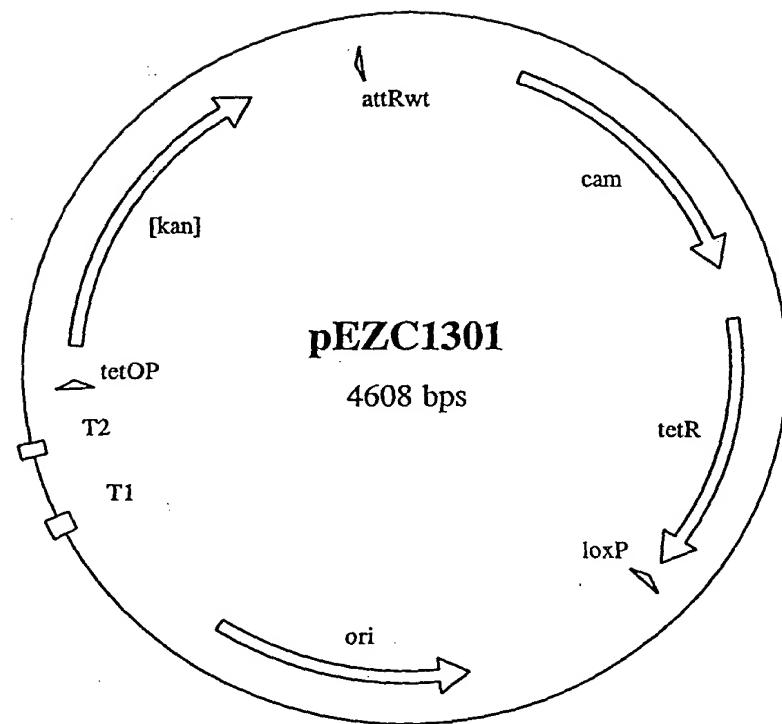
- FIGURE 4D -



- FIGURE 4E -

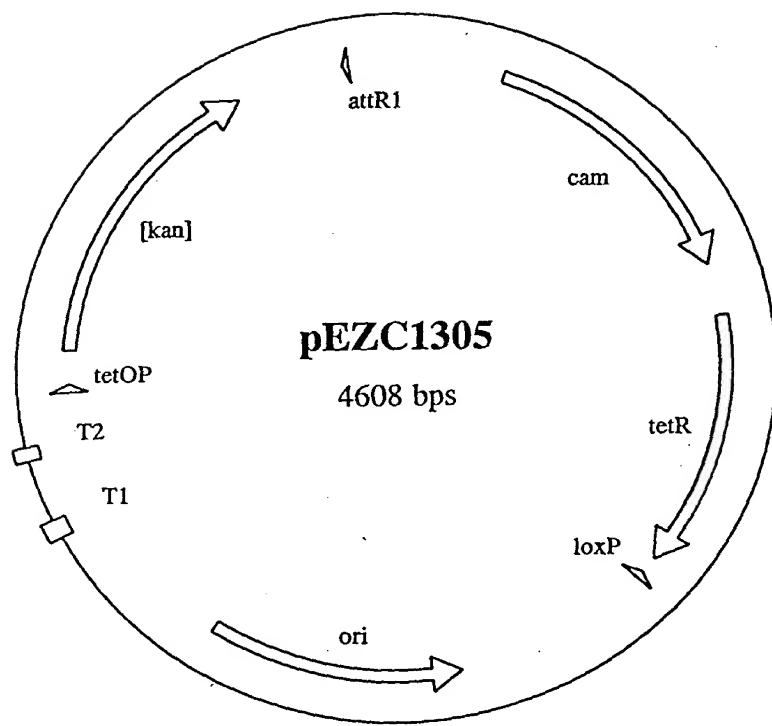


- FIGURE 4F -



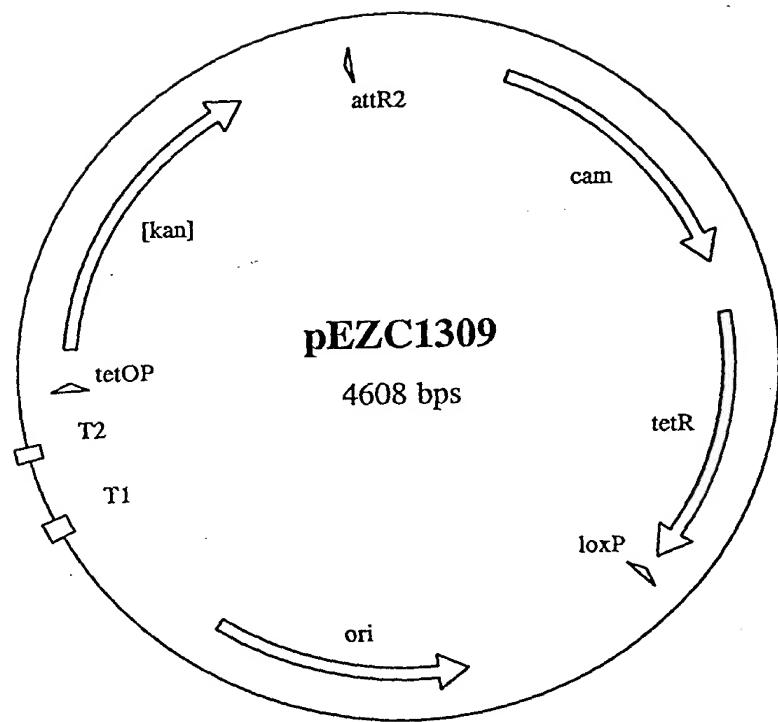
- FIGURE 5A -

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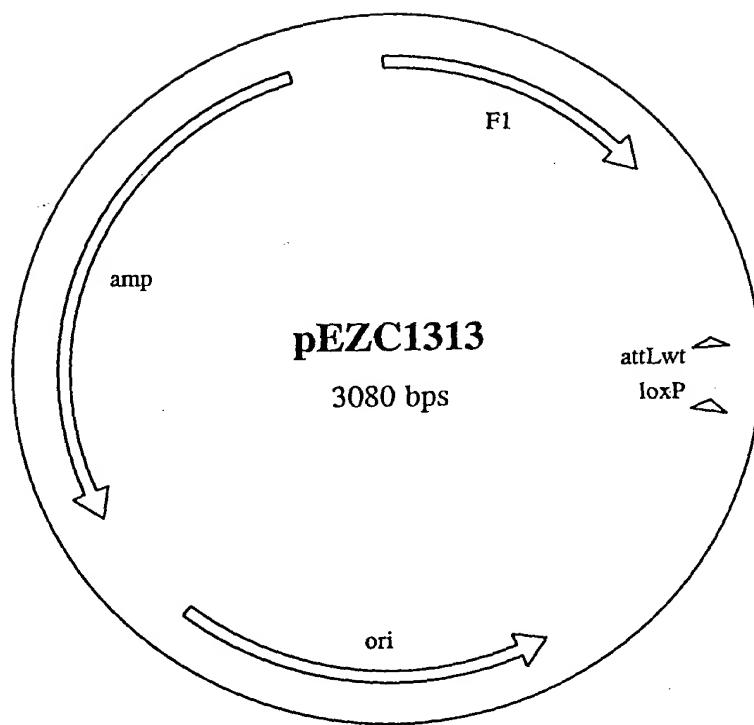


- FIGURE 5B -

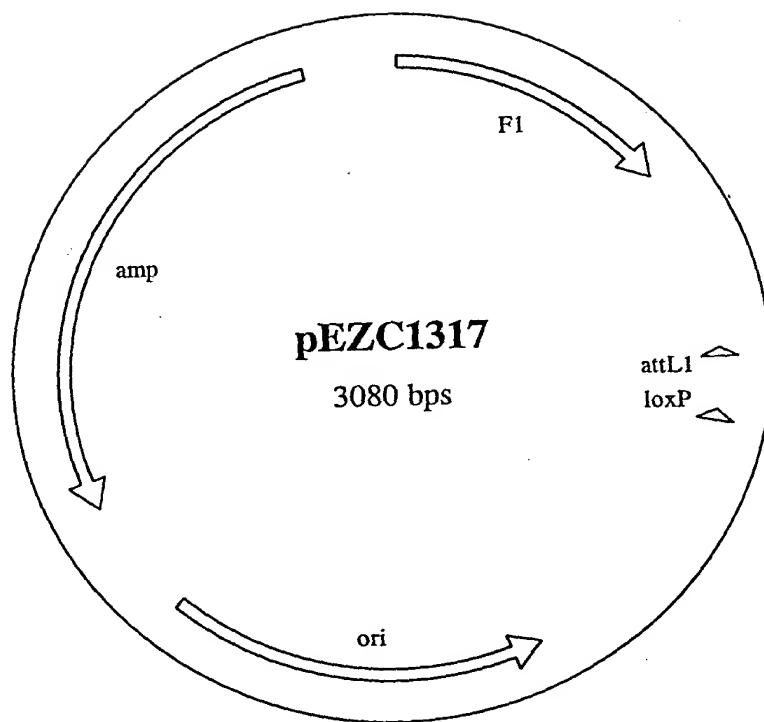
bioRxiv preprint doi: <https://doi.org/10.1101/2023.08.15.550000>; this version posted August 15, 2023. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under a [CC-BY-ND 4.0 International license](https://creativecommons.org/licenses/by-nd/4.0/).



- FIGURE 5C -

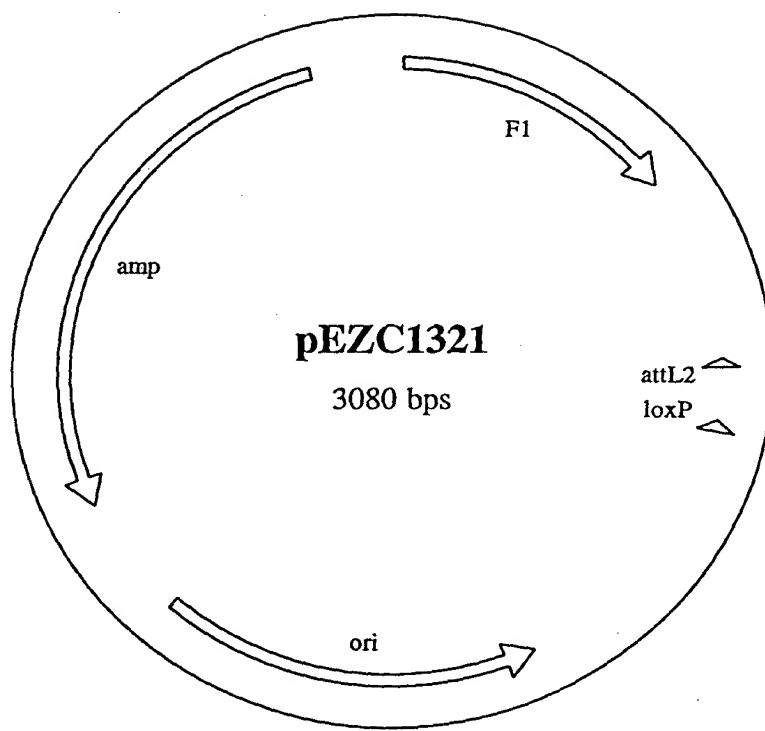


- FIGURE 5D -



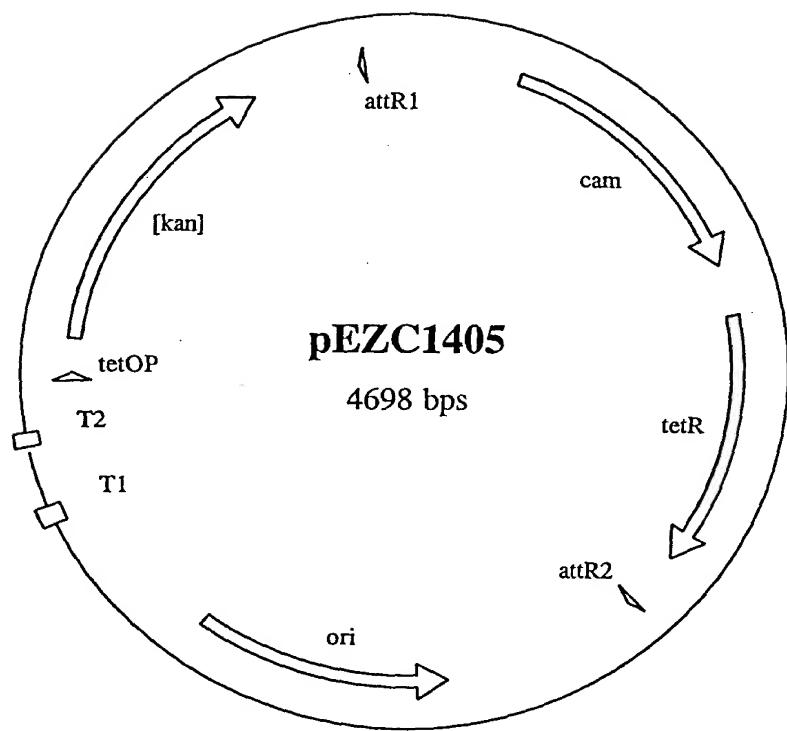
- FIGURE 5E -

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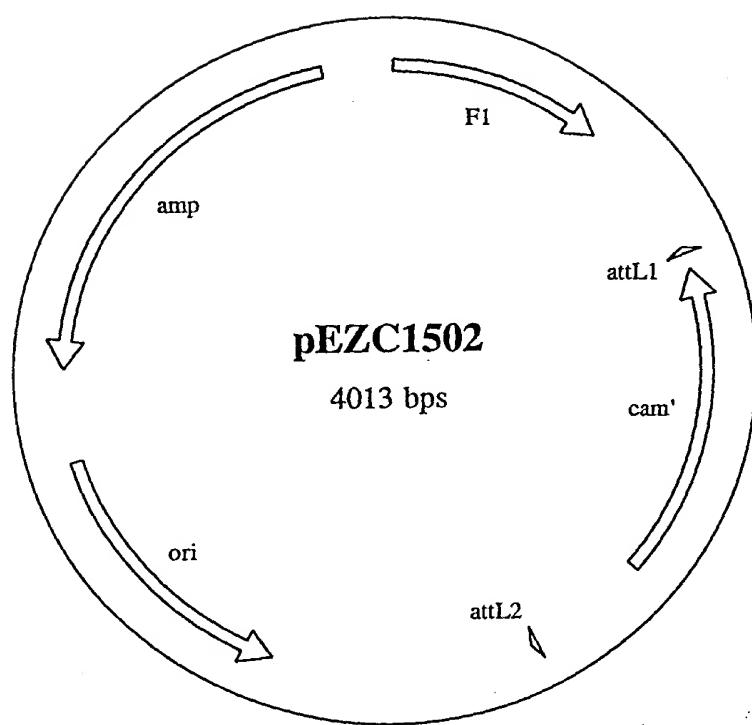


- FIGURE 5F -

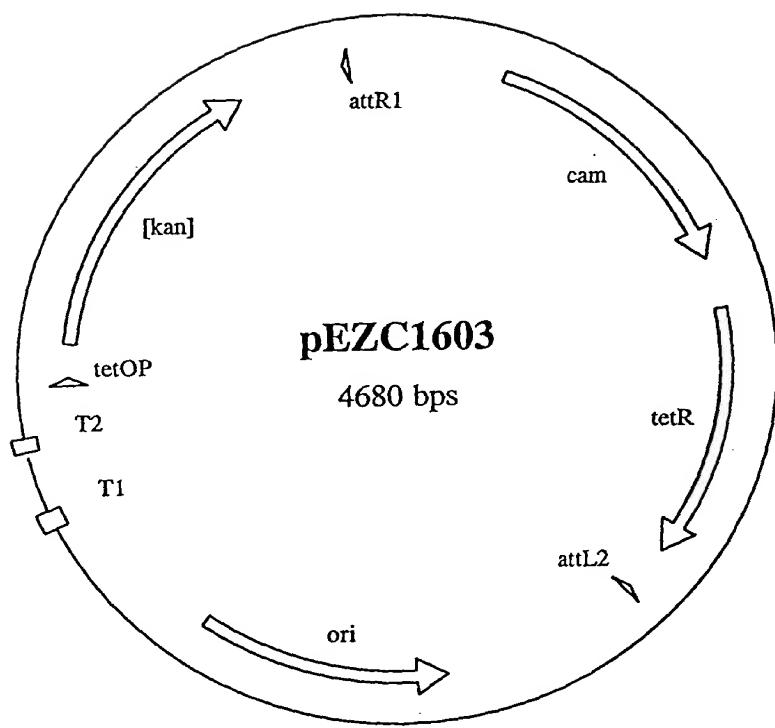
© 2002 Blackwell Science Ltd, *Journal of General Microbiology*, 148, 277–283



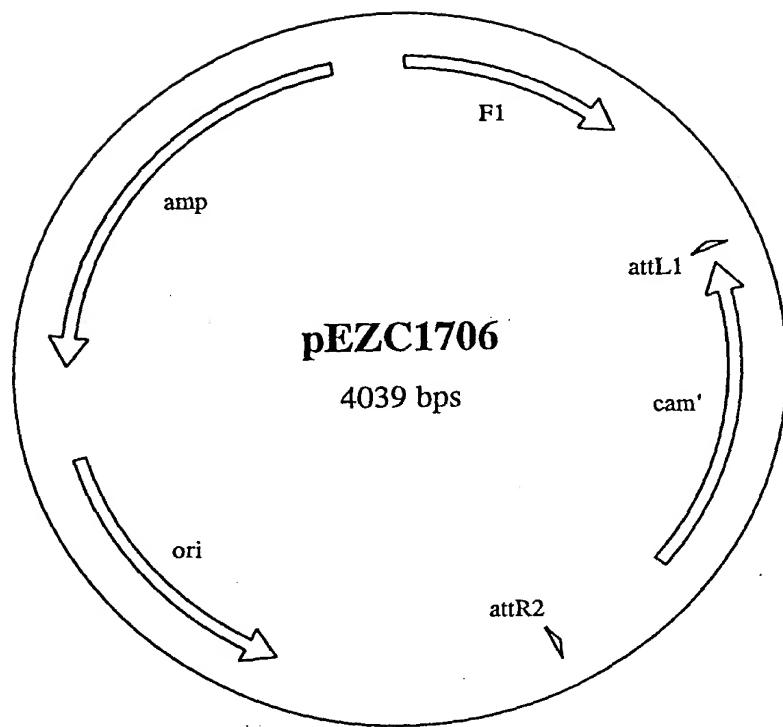
- FIGURE 5G -



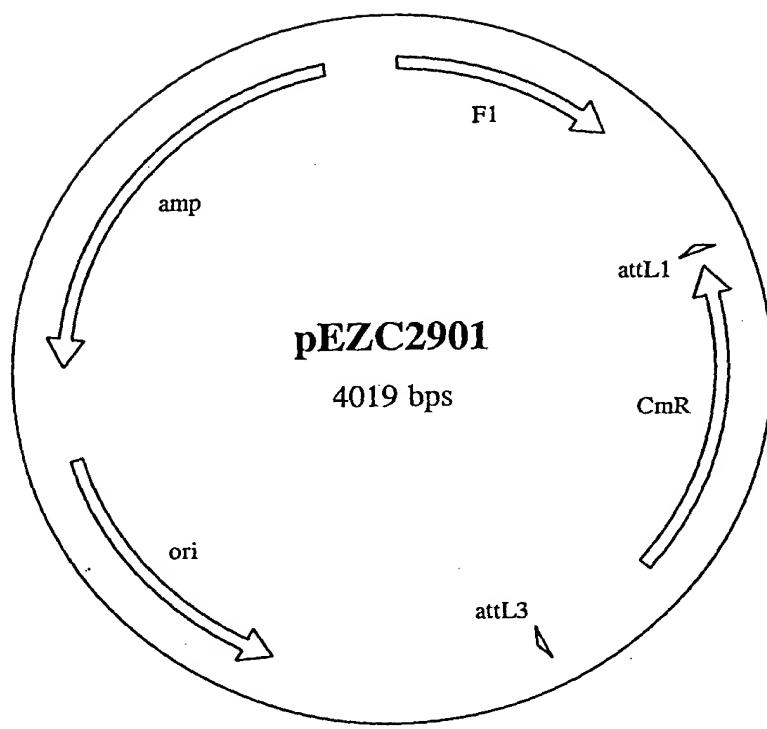
- FIGURE 5H -



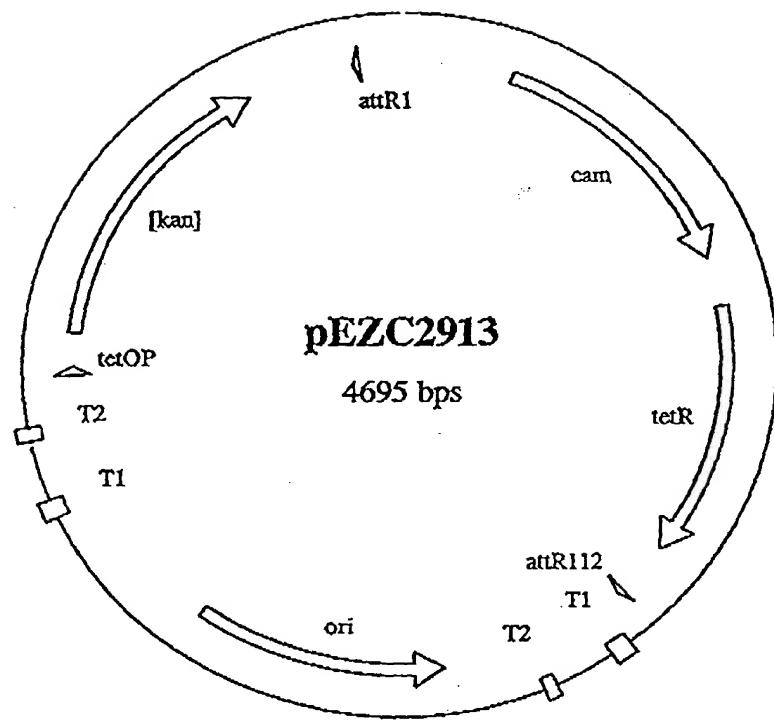
- FIGURE 6A -



- FIGURE 6B -

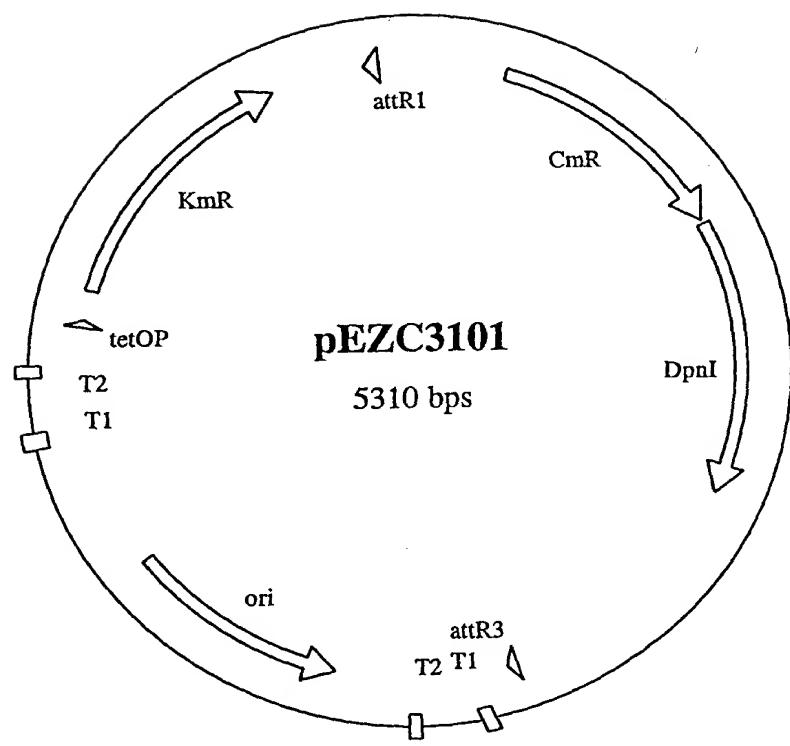


- FIGURE 7A -

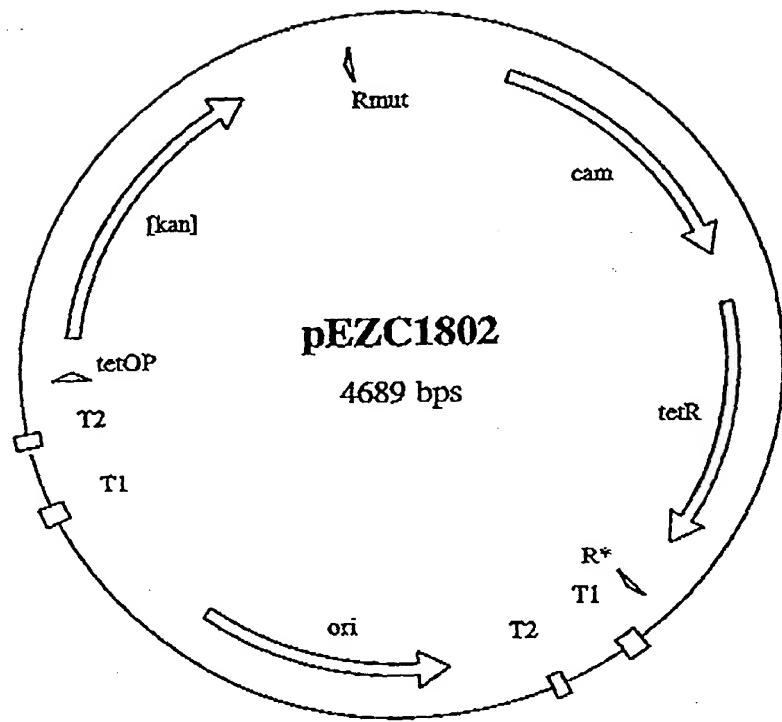


- FIGURE 7B -

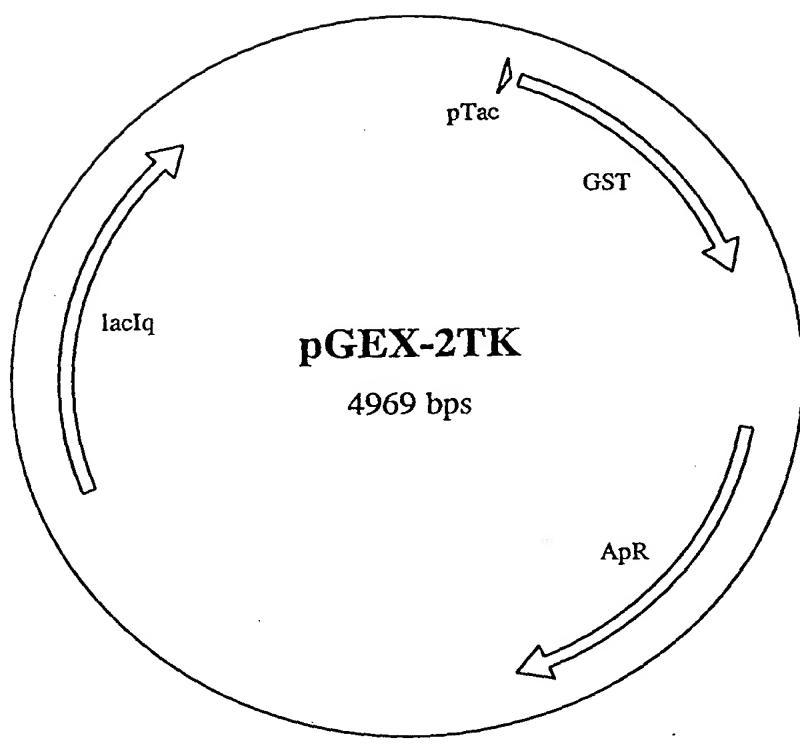
© 2000 John Wiley & Sons, Ltd. *J. Biotechnol.* 77: 1–10, 2000  
DOI: 10.1002/(SICI)1099-1573(200001)77:1<1::AID-JBTEC1>3.0.CO;2-1



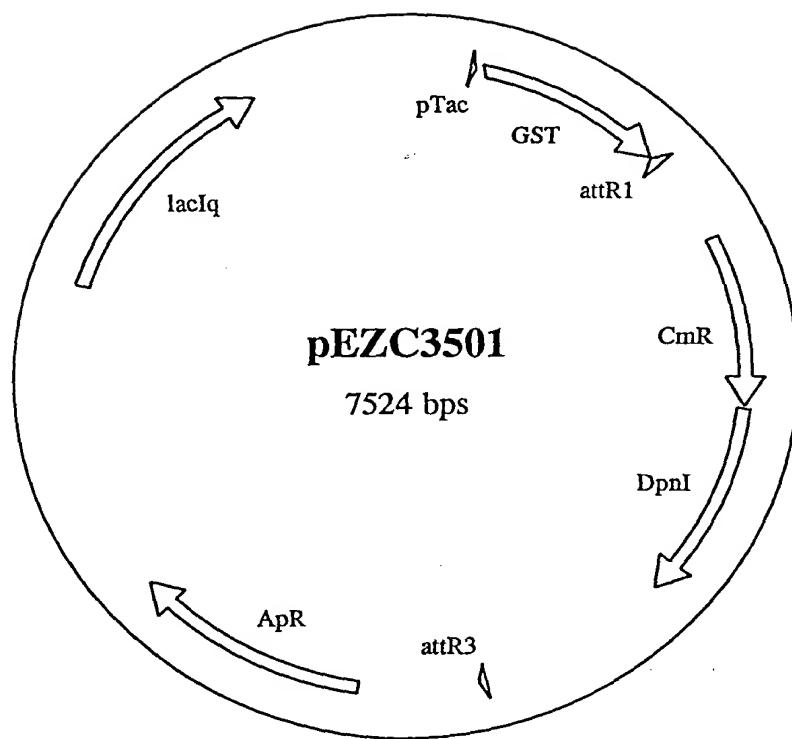
- FIGURE 7C -



- FIGURE 7D -

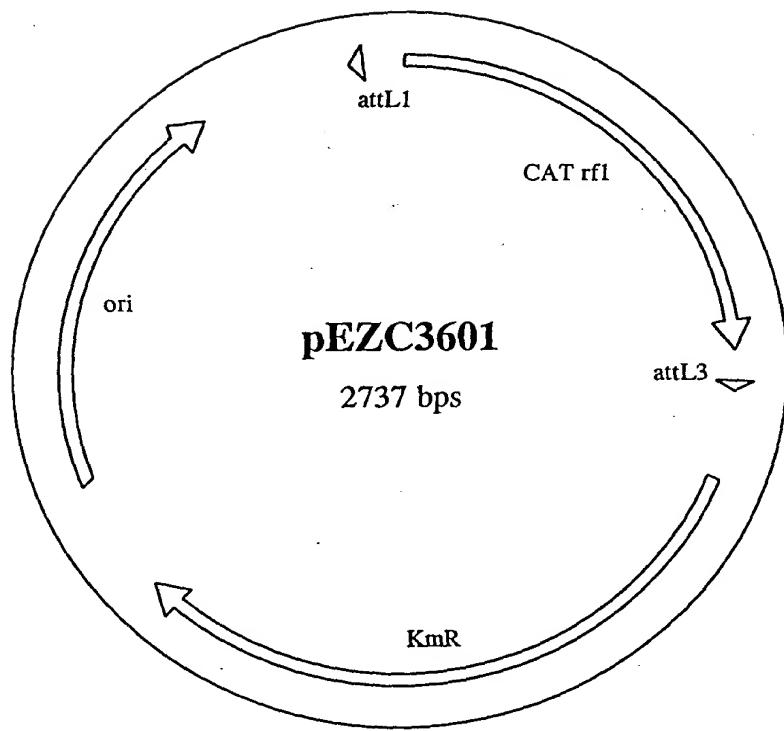


- FIGURE 8A -



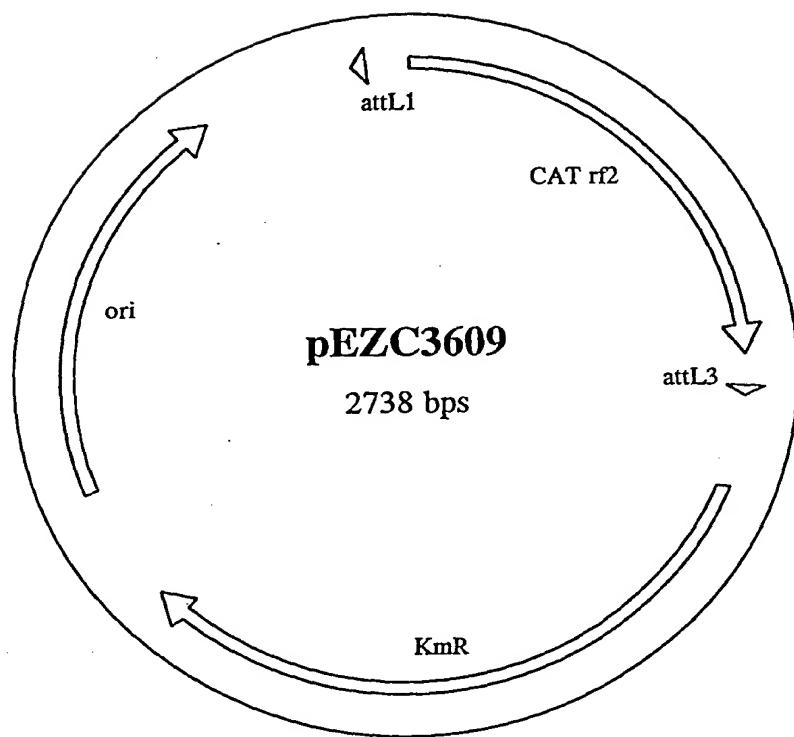
- FIGURE 8B -

0001323620000000

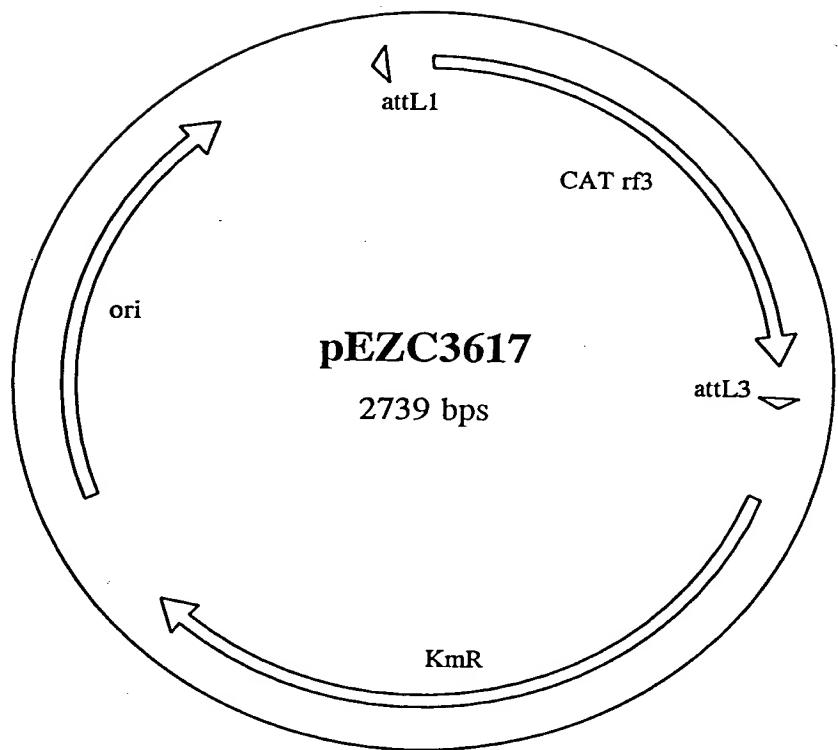


- FIGURE 8C -

BIOLOGY DEPARTMENT

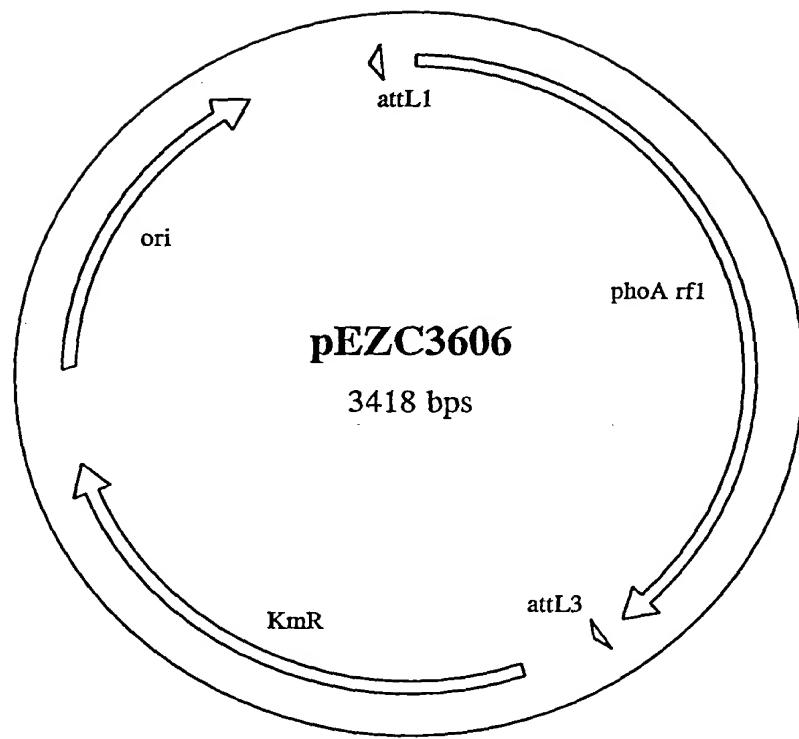


- FIGURE 8D -



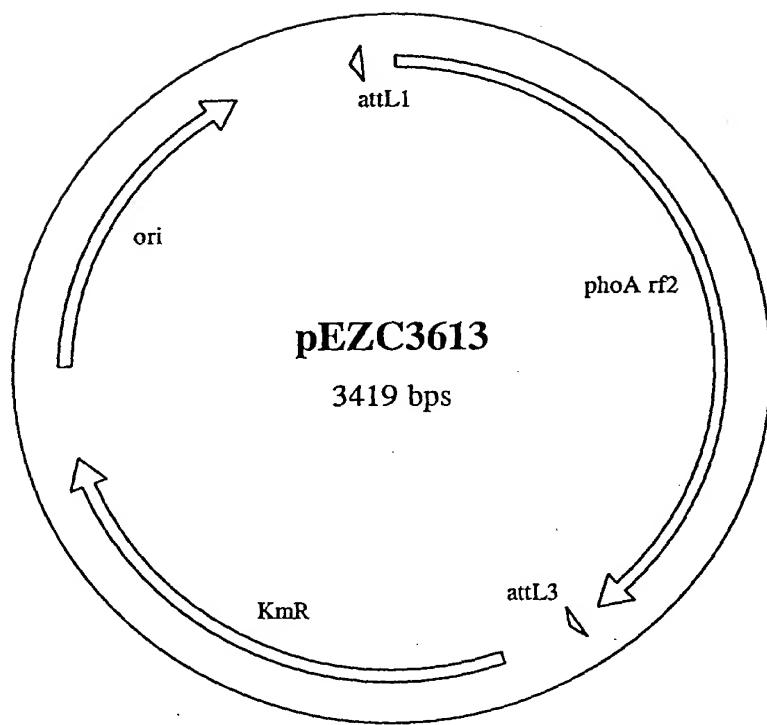
- FIGURE 8E -

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- FIGURE 8F -

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- FIGURE 8G -

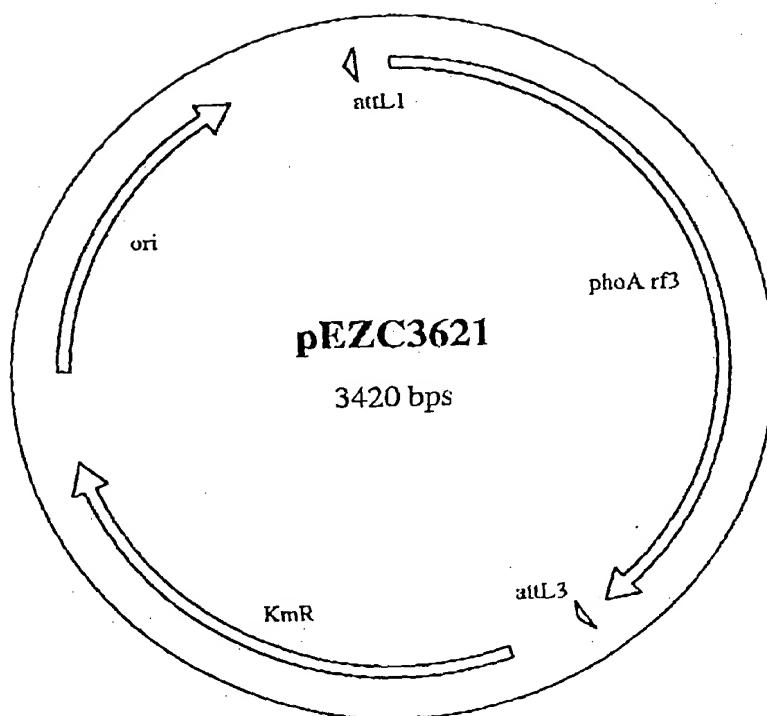


Figure 8H

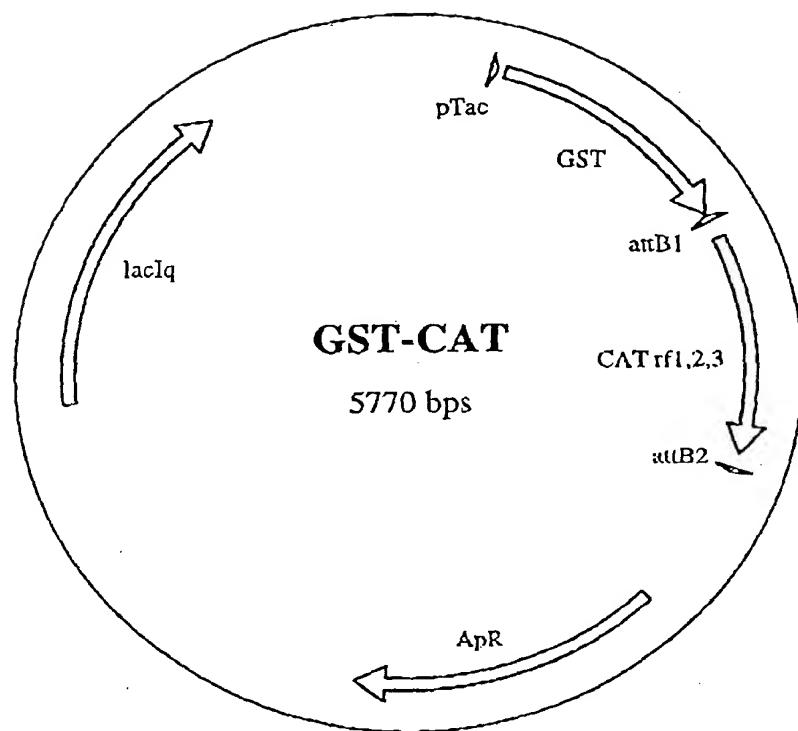


Figure 8I

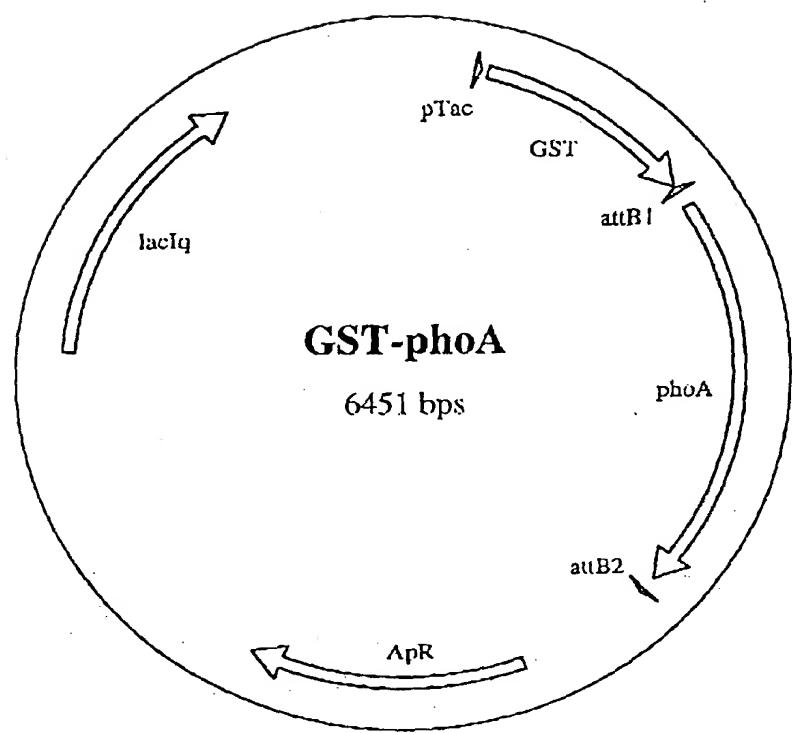


Figure 8J

00000000000000000000000000000000

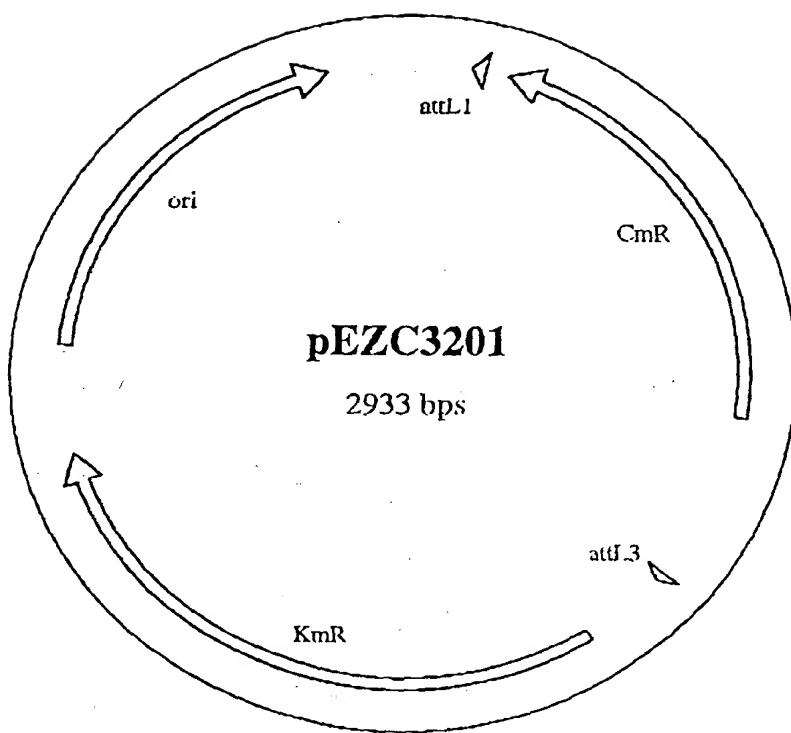
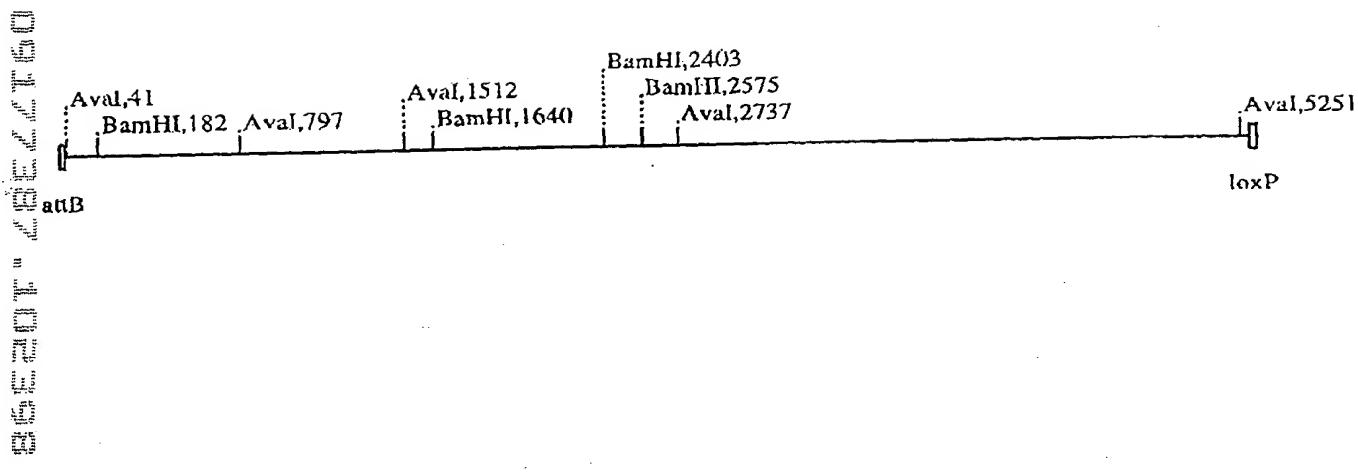


FIGURE 8K



**5.2kbPCRprod (5327 bps)**

FIGURE 9A

09122687 102298

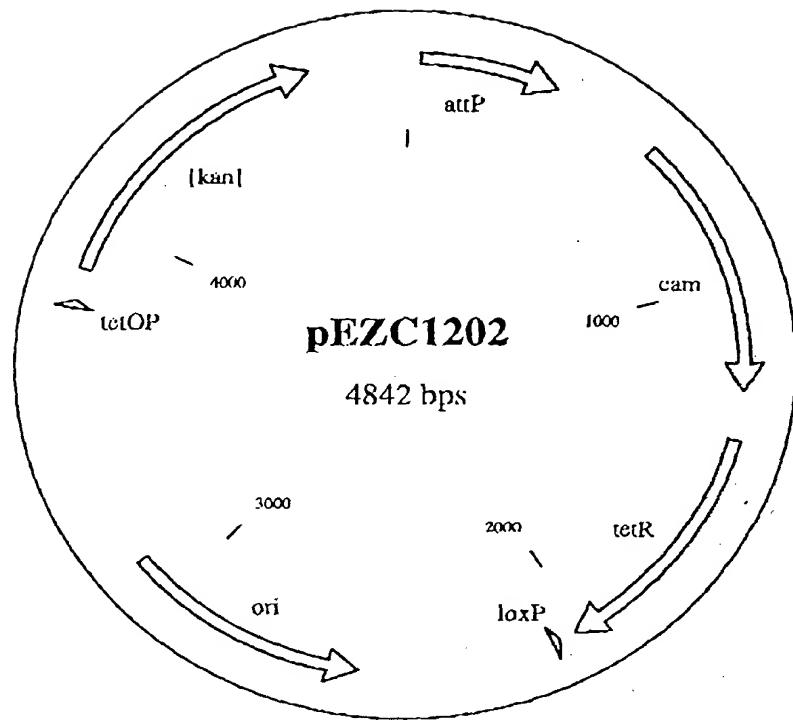


FIGURE 9B

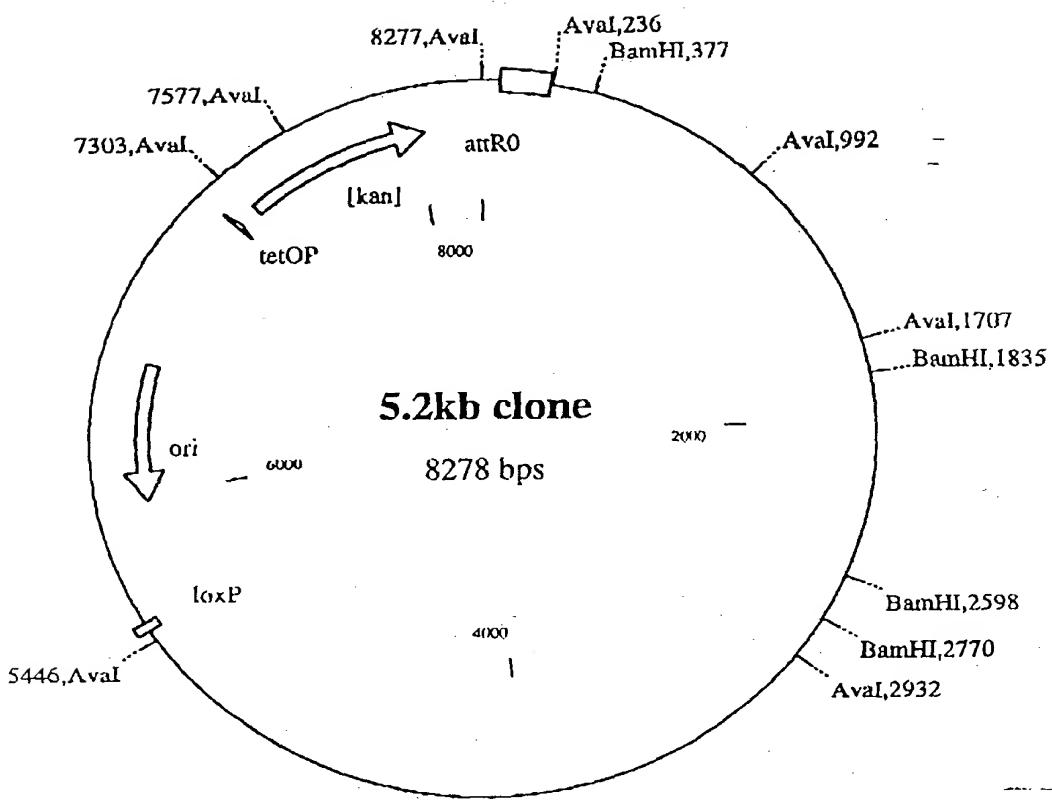


FIGURE 9C

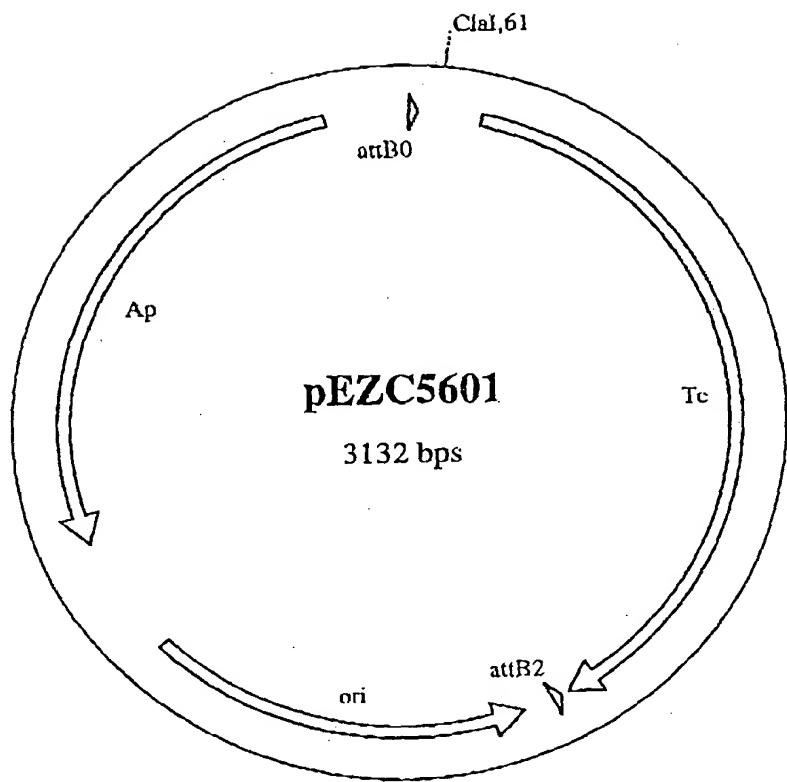


Figure 10 A

3133,Clal... Km attP0 ccdB attP2 ori

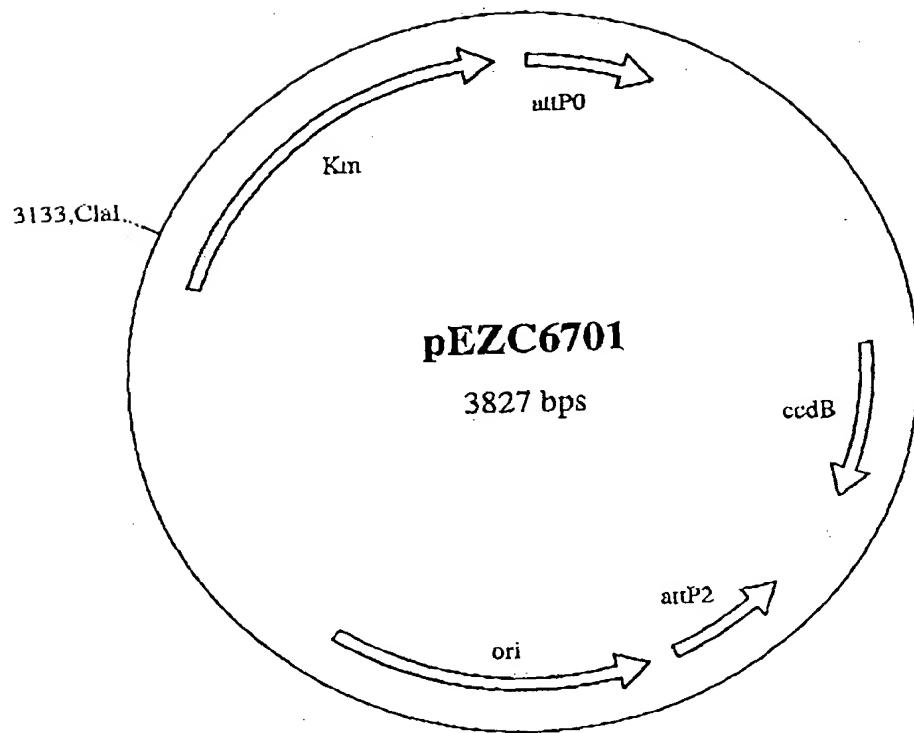


Figure 10B

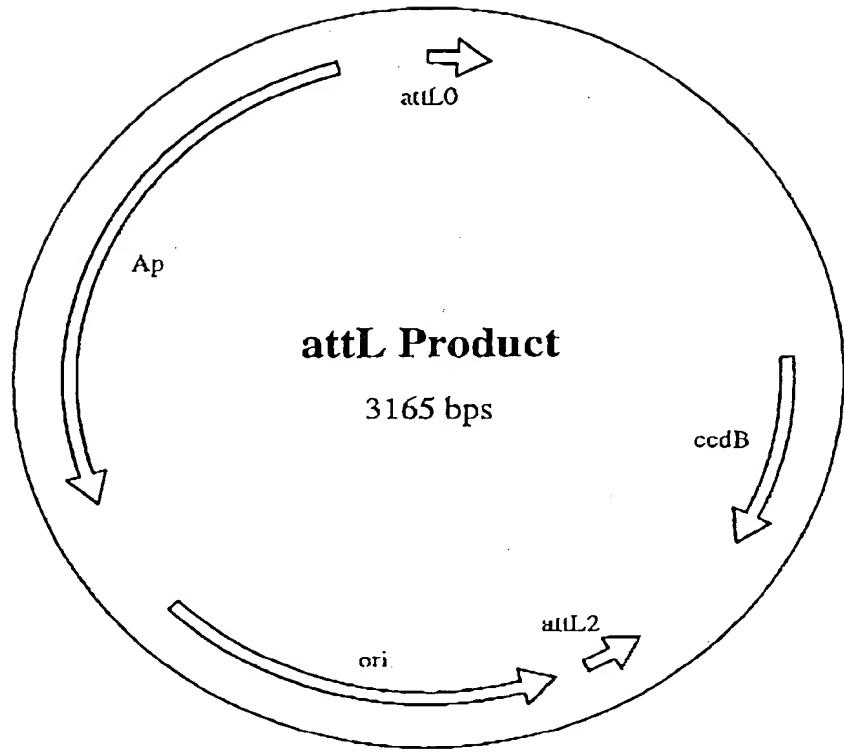


Figure 10C

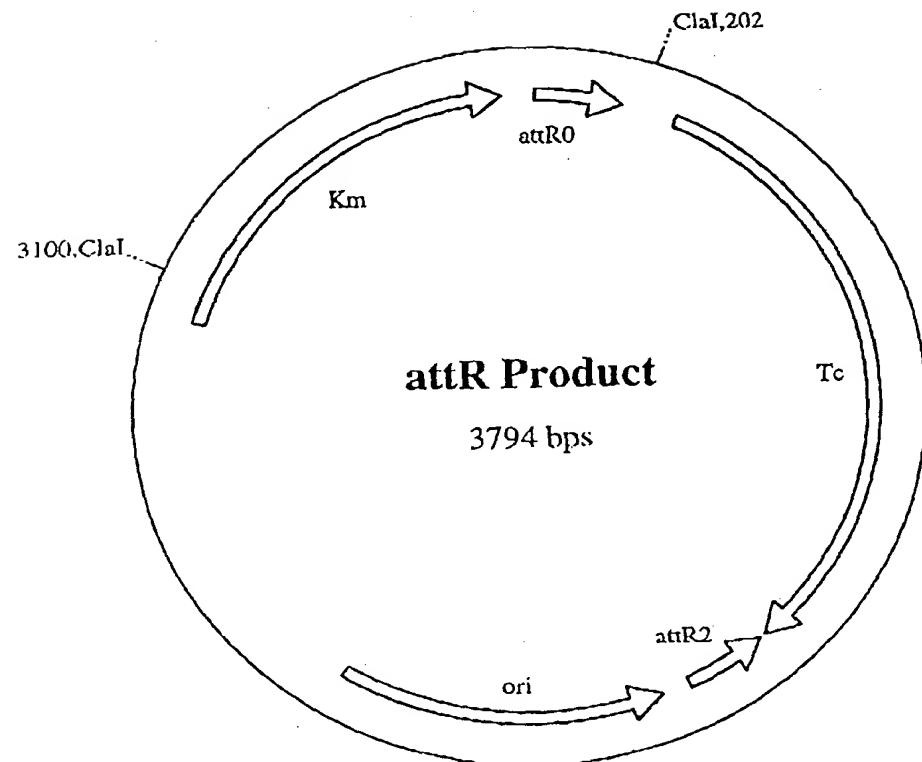


Figure 10D

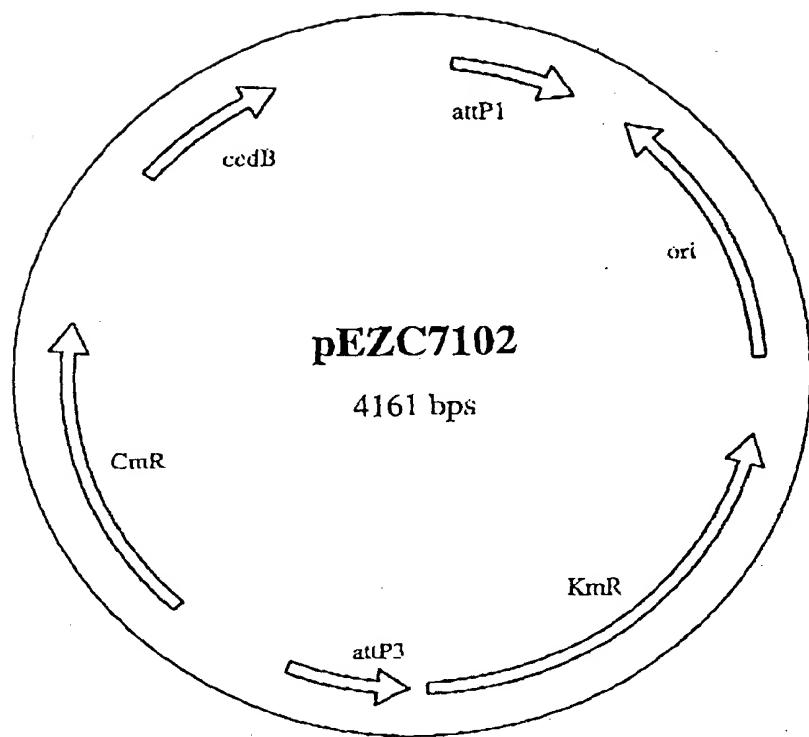


Figure 11A

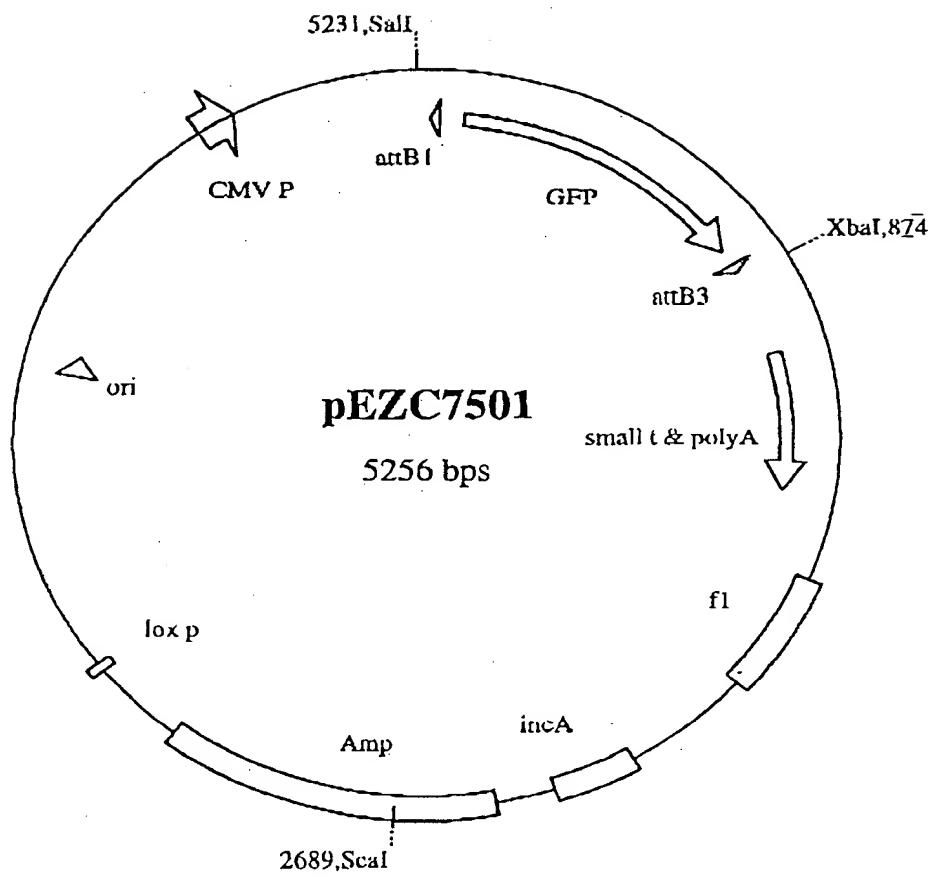


Figure 11B

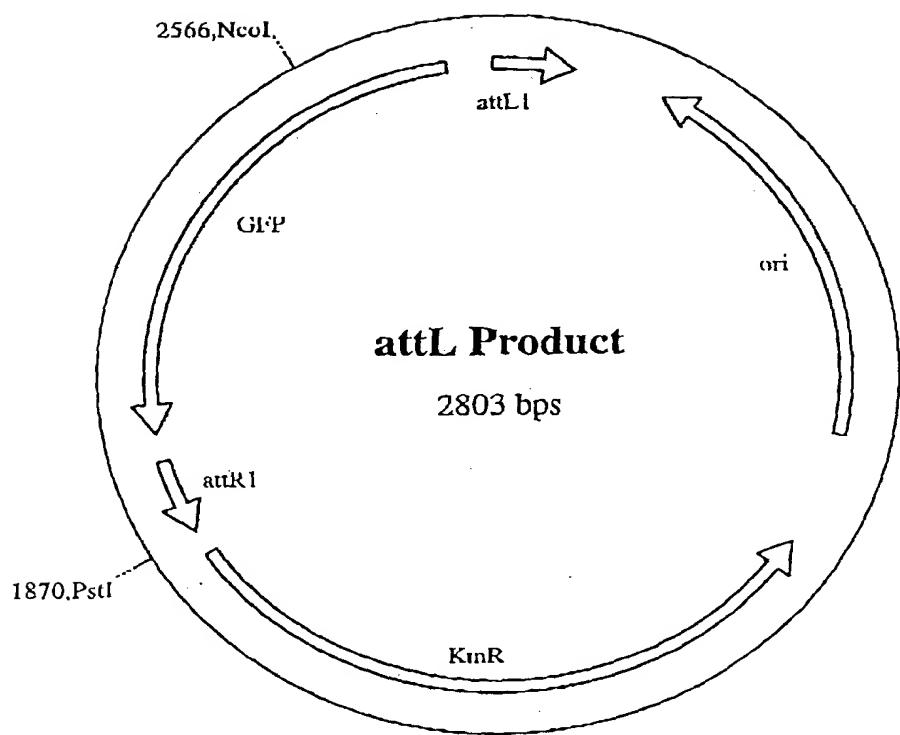
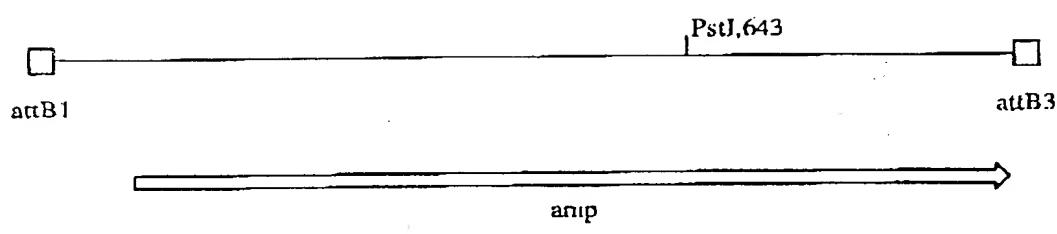
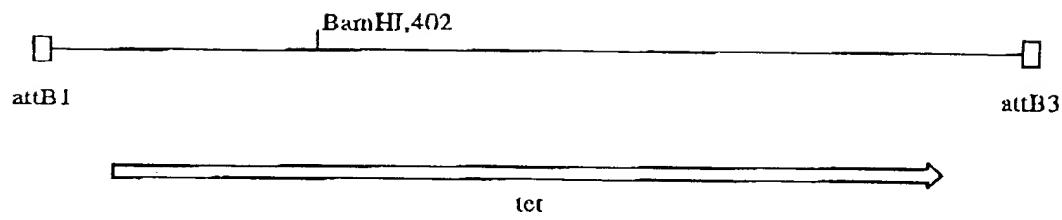


Figure 11D



**attB1AMPattB3 (987 bps)**

Figure 12A



**attB1TETattB3** (1442 bps)

Figure 12B

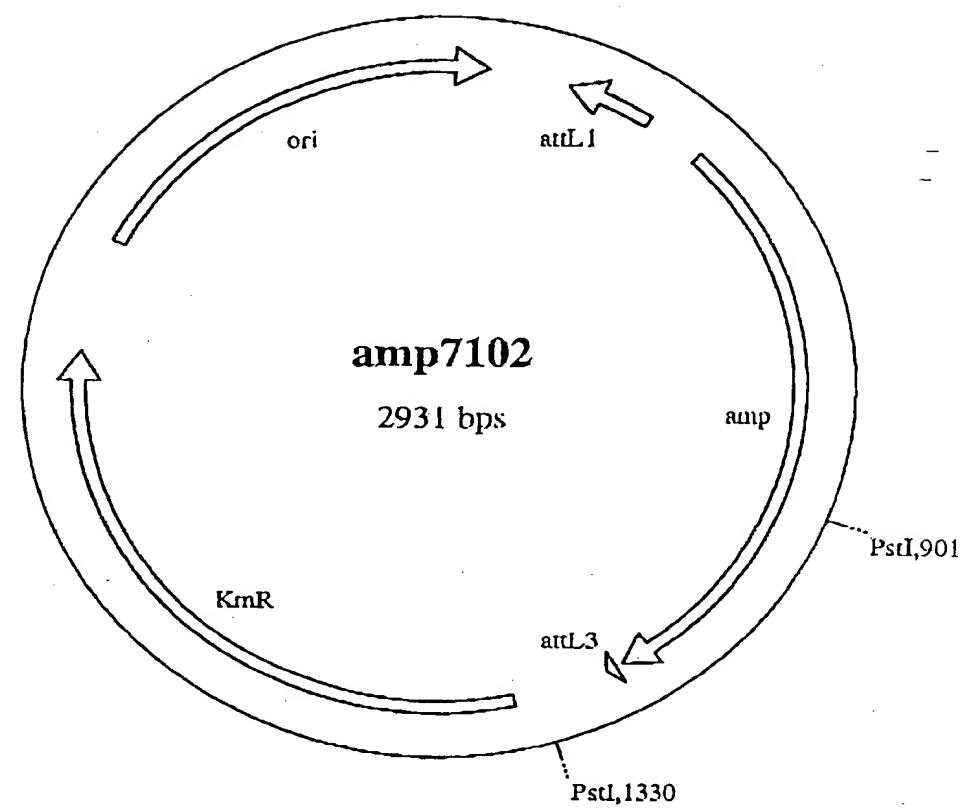


Figure 12C

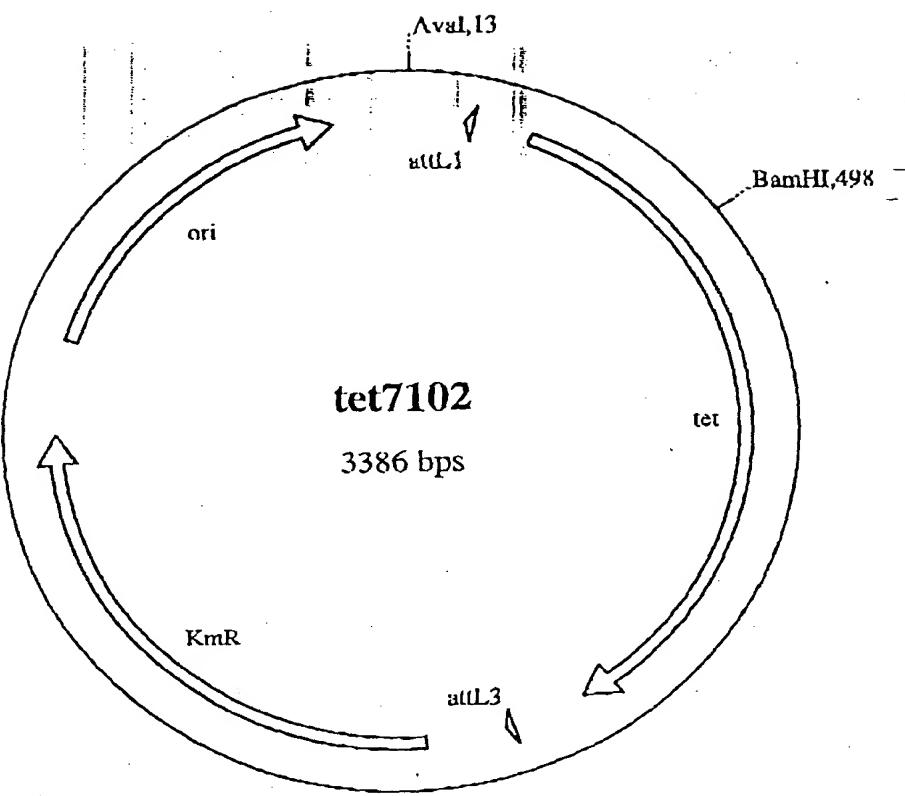


Figure 12D